WEST COAST DATA INVENTORY AND APPRAISAL
VOLUME 2 (PART 1)
Waters West of Vancouver Island and the Queen Charlotte Islands out to the 200-Mile Fishery Limit: Physical Oceanography – Temperature, Salinity, Currents, Water Levels and Waves 1905 through 1984

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1986

CANADIAN DATA REPORT OF
HYDROGRAPHY AND OCEAN SCIENCES
NO. 37

87-04064/

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport nº 1 en janvier 1982.

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Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves
1905 through 1984

by

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PREFACE

To manage Canadian West Coast waters competently, there is a fundamental requirement to review the sufficiency and suitability of the available scientific data for many purposes - such as engineering design, regulation, assessment, planning, research and monitoring. We consider this review to consist of three phases: (i) the cataloguing, mapping and methods-appraisal of all existing data sets; (ii) the actual scrutiny of the data themselves and the judgement of their utility for answering management questions; and (iii) the analysis and interpretation of the best of these data.

This inventory, which indexes the physical-oceanographic data of the waters off Vancouver Island and the Queen Charlotte Islands out to the 200-mile fishery limit, is considered a major contribution to phase (i). It has been produced by the Ocean Information Division at the Institute of Ocean Sciences, Department of Fisheries and Oceans, as part of a Data Inventory and Appraisal Program. Contract projects, supervised by government scientists and funded by numerous federal agencies, have examined all known marine-data sets which contain oceanographic information obtained in the areas in question. Evaluation of the data-set quality has been carried out by careful examination of the documentation for methodologies used in sampling and in data storage and analysis.

It is our hope that this inventory will assist you, both in establishing the usefulness of existing data for whatever particular purpose contemplated, and in assessing the confidence to be placed in the interpretations. In addition, it should aid in setting priorities for archiving large quantities of data into the Department's Marine Environmental Data Service (MEDS) in Ottawa.

L. F. Giovando
Scientific Coordinator
Canadian West Coast Compilation
and Appraisal Series

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Cat. No. Fs97-16/37(2)   ISSN 0711-6721

Correct citation for this publication is:

Birch, J. R., L.F. Giovando and D.B. Fissel, 1986. West Coast Data Inventory and Appraisal. Volume 2. Waters West of Vancouver Island and the Queen Charlotte Islands out to the 200-Mile Fishery Limit: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves, 1905 through 1984. Can. Data Rep. Hydrogr. Ocean Sci. 37:(Vol. 2, Part 1, 502 p., Part 2, 324 p.)

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ABSTRACT

Birch, J. R., L.F. Giovando and D.B. Fissel, 1986. West Coast Data Inventory and Appraisal. Volume 2. Waters West of Vancouver Island and the Queen Charlotte Islands out to the 200-Mile Fishery Limit: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves, 1905 through 1984. Can. Data Rep. Hydrogr. Ocean Sci. 37:(Vol. 2, Part 1, 502 p., Part 2, 324 p.)

This volume is one of a group of catalogues designed to inventory and appraise marine-data sets collected in waters off the west coast of Canada. For user convenience, the group has been organized with its subject matter divided into three general disciplines: physics, chemistry and biology. The format throughout has been structured to facilitate comparison among subjects and regions. With such a large undertaking it is not possible to provide all catalogues at once; the present volume deals with physics only.

Data collection is a continuing process and further updates of these inventories are planned. Readers are requested to submit corrections and additions by writing the issuing establishment. Such corrections and additions will be incorporated in on-line computerized data set listings and will be continuously available upon request.

Key words: British Columbia, Queen Charlotte Islands, Vancouver Island, inventory, salinities, temperatures, currents, water levels, waves.

SOMMAIRE

Birch, J. R., L.F. Giovando and D.B. Fissel, 1986. West Coast Data Inventory and Appraisal. Volume 2. Waters West of Vancouver Island and the Queen Charlotte Islands out to the 200-Mile Fishery Limit: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves, 1905 through 1984. Can. Data Rep. Hydrogr. Ocean Sci. 37:(Vol. 2, Part 1, 502 p., Part 2, 324 p.)

Le présent volume fait partie d'un groupe de catalogues destinés à faire l'inventoire de et à évaluer les séries de données marines sur la côte ouest du Canada. Pour plus de commodité, la question traitée est structurée en trois grandes disciplines: physique, chimie et biologie. Les catalogues sont présentés de façon à faciliter la comparaison entre les sujets et les régions. Le domaine est si vaste qui'il est impossible de fournir tous les catalogues en une seule fois; le présent volume traite seulement la physique.

La collecte des données est un processus permanent et il est prévu de mettre à jour ces inventoires par la suite. Les lecteurs sont invités à soumettre par écrit les corrections et les additions à l'établissement auteur. Ces corrections et additions seront traitées en direct sur ordinateur et incorporées aux listages qui pourront être obtenus sur demande.

Mots-clés: Colombie-Britannique, Queen Charlotte Islands, Vancouver Island, inventoire, salinités, températures, courants, niveaux de la mer, ondes.

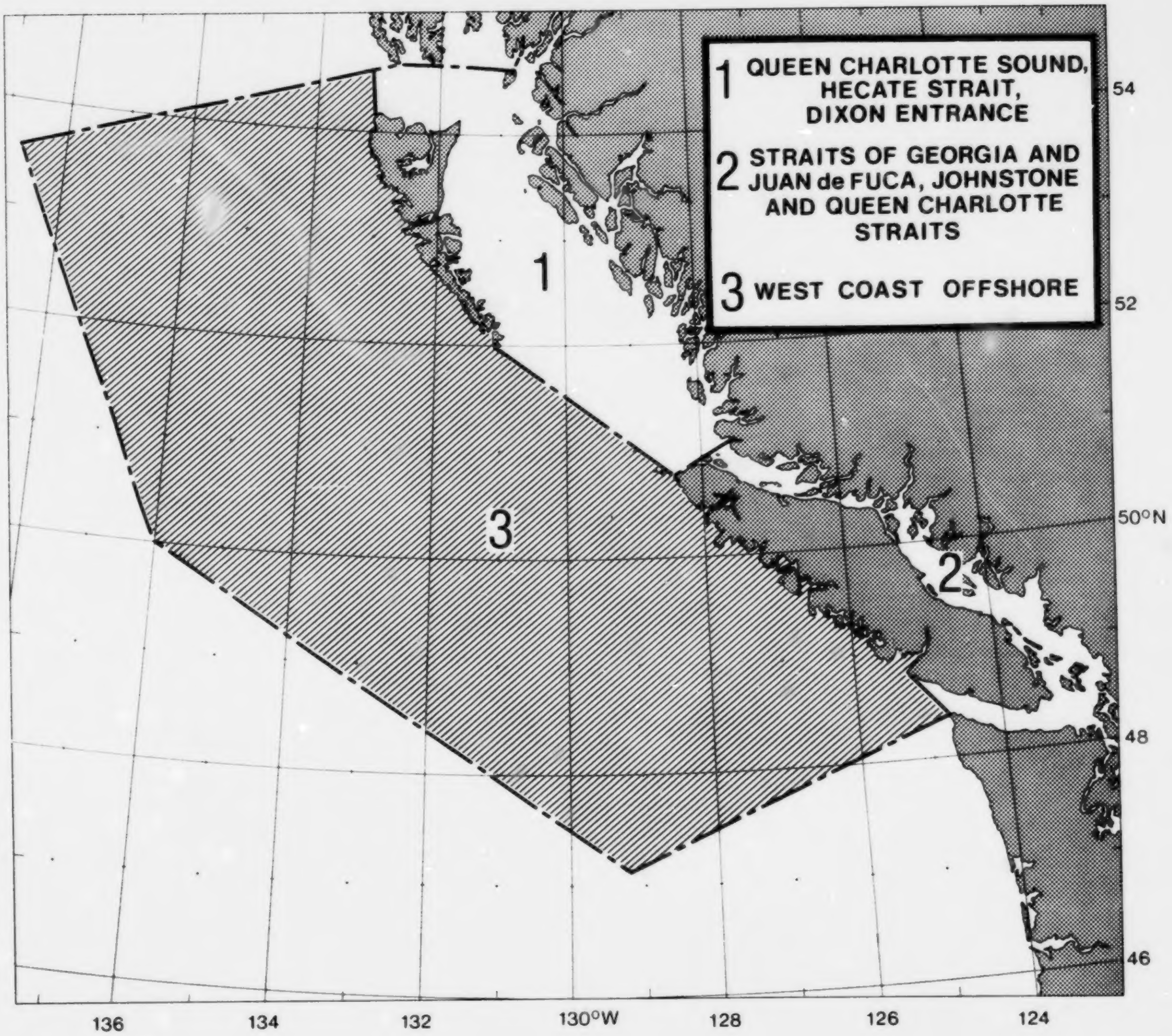
ACKNOWLEDGEMENTS

We thank Mr. G. Floyd for the supervision of ID number assignment. Use was made of the MEDS and NODC data bases, and review reports such as Dodimead (1984). We thank the following for providing information and reviewing the manuscript: Dr. R. Thomson, Mr. D. Stucchi, Mr. A. Douglas, Mr. F. Stephenson, Dr. W. Crawford, Mr. S. Huggett, Dr. R. Macdonald and Dr. H. Freeland of the Institute of Ocean Sciences; Mr. D. Goyette of the Environmental Protection Service; and Mr. A. Dodimead of the Pacific Biological Station, Nanaimo. Ms. L.S.C. Thomson was responsible for technical editing. Special thanks are also due to the following Arctic Sciences Ltd. personnel: Ms. S. Norton, Ms. N. Andrew and Mrs. J. Oberski for preparing the manuscript and Mr. R. Chave for computer program development.

WEST COAST DATA INVENTORY AND APPRAISAL

VOLUME 2 (PART 1)

Waters West of Vancouver Island and the Queen Charlotte Islands out to the 200-Mile Fishery Limit: Physical Oceanography


1 QUEEN CHARLOTTE SOUND, HECATE STRAIT, DIXON ENTRANCE
2 STRAITS OF GEORGIA AND JUAN de FUCA, JOHNSTONE AND QUEEN CHARLOTTE STRAITS
3 WEST COAST OFFSHORE
1
2
3
54
52
50°N
48
46
136
134
132
130°W
128
126
124

The study area, 3 shown shaded above, is bounded offshore by the 200-mile fishery limit.

VOLUME 2: Waters West of Vancouver Island and the Queen Charlotte Islands out to the 200-Mile Fishery Limit: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves, 1905 through 1984.

VOLUME ABSTRACT

This inventory represents a catalogue of physical-oceanographic data collected in waters west of Vancouver Island and the Queen Charlotte Islands out to and including the 200-mile fishery limit. Times and locations of measurements are listed and displayed graphically for temperature, salinity, current-meter, water-level, wave and drifter data. Yearly plots showing the locations of all measurements are included, as is an index of references by data-set number. References and sources are listed for all data included in the inventory.

Key words: British Columbia, Queen Charlotte Islands, Vancouver Island, inventory, salinities, temperatures, currents, water levels, waves.

1. INTRODUCTION

In this report, the physical-oceanographic data collected in waters west of Vancouver Island and the Queen Charlotte Islands out to and including the 200-mile fishery limit are catalogued. The information provided includes the time and location of measurements, the parameters measured, and the type of instrumentation used. The data themselves are not included, but a source for, and any reports or references utilizing them, are cited wherever possible. This will enable potential users of the data to determine what is available in their area of interest, what data were collected using a specific measurement technique, and whether those data may be of value.

About 500 data sets collected from 1905 through 1984 are summarized in Table 2.

The station header information is to be added to the ongoing data base at the Institute of Ocean Sciences (IOS), Sidney, B.C. As new data and/or previously-inaccessible data become available, they will be added to a computerized data base maintained by the Ocean Information Division. Information concerning new data sets, older data sets which have not been included, or errors in this catalogue, should be submitted to the Ocean Information Division of the Institute of Ocean Sciences (phone 604-656-8268 or 604-656-8335).

2. STUDY AREA

The study area includes the 200-mile offshore fishery limit as well as the inlets and sounds along the west coast of Vancouver Island and the Queen Charlotte Islands (Figure 1a,b).

The B.C. continental shelf narrows from a width of approximately 80 km off southern Vancouver Island to about 30 km off the Queen Charlotte Islands. Most of the area is considered deep sea, with depths on the order of 2,000-

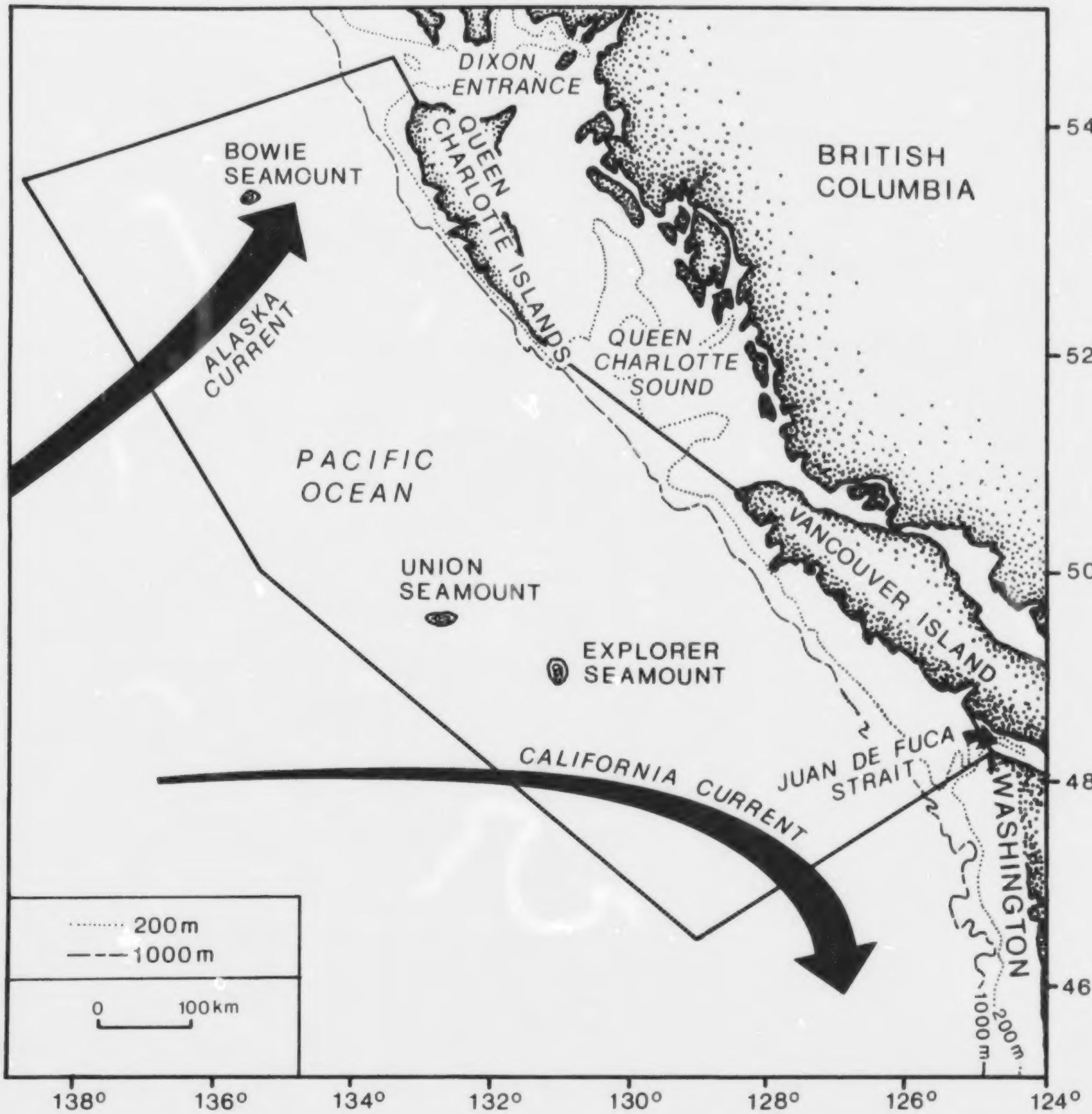

DIXON ENTRANCE
QUEEN CHARLOTTE ISLANDS
BRITISH COLUMBIA
BOWIE SEAMOUNT
ALASKA CURRENT
QUEEN CHARLOTTE SOUND
PACIFIC OCEAN
VANCOUVER ISLAND
UNION SEAMOUNT
EXPLORER SEAMOUNT
CALIFORNIA CURRENT
JUAN DE FUCA STRAIT
WASHINGTON
200m
1000m
0
100km
1000 m
200 m
54°
52°
50°
48°
46°
138°
136°
134°
132°
130°
128°
126°
124°

Figure 1a: Major current and bathymetric features offshore British Columbia.

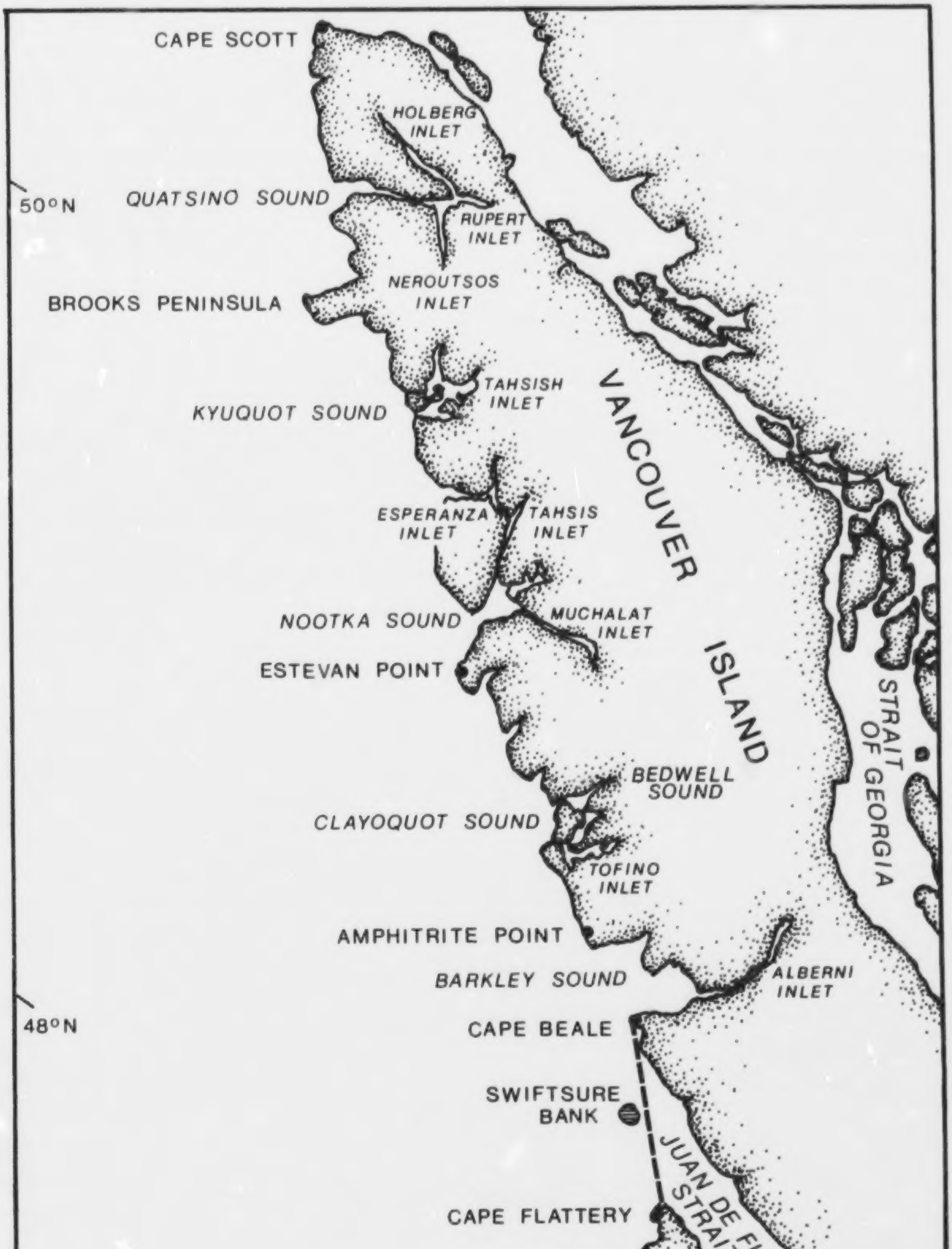

CAPE SCOTT
HOLBERG INLET
QUATSINO SOUND
50°N
RUPERT INLET
NEROUTSOS INLET
BROOKS PENINSULA
TAHSISH INLET
KYUQUOT SOUND
VANCOUVER ISLAND
ESPERANZA INLET
TAHSIS INLET
NOOTKA SOUND
MUCHALAT INLET
ESTEVAN POINT
STRAIT OF GEORGIA
BEDWELL SOUND
CLAYOQUOT SOUND
TOFINO INLET
AMPHITRITE POINT
BARKLEY SOUND
ALBERNI INLET
48°N
CAPE BEALE
SWIFTSURE BANK
JUAN DE FUCA STRAIT
CAPE FLATTERY
126°W
124°W

Figure 1b: Placenames for the west coast of Vancouver Island.

3,000 m. A series of seamounts parallels the coast. Although the surrounding water depths are typically 3,000 m, the peaks of these underwater volcanoes rise to within a relatively short distance of the surface (100 m in the case of Bowie Seamount).

Even though the area is bathymetrically a deep-sea region, most surface waters are influenced by coastal runoff. An area of upwelling, most pronounced in summer, extends along the Vancouver Island coast and to the south. The major currents in the area are the Alaska and California currents, which result from a splitting of the Subarctic Current due to a divergence in the prevailing winds. Surface flow along the coast is generally northerly in winter (Davidson Current) and variable in summer. Further information regarding the climatology and oceanography of this area may be found in Thomson (1981a).

3. HISTORICAL DATA

The early oceanographic data consist mainly of water-level measurements. These data commenced in 1905 when a permanent water-level station was established near Tofino.

In 1934, a program was begun which involved the collection of surface temperature and salinity data at shore stations, mainly at lightstations maintained by the Ministry of Transport (MOT) or its organizational predecessors. Since then, nine such sampling stations have been operated in this area for varying periods of time (Section 3.1).

The first oceanographic survey in the area was conducted by the University of Washington in 1932 and consisted of several hydrographic stations offshore of Vancouver Island. In the 1930's, the Pacific Biological Station (PBS) at Nanaimo began cruises in this area. The Pacific Oceanographic Group (POG) was formed in 1946 specifically to study the oceanographic conditions of B.C. waters. The Institute of Oceanography at the University of British Columbia (IOUBC), formed in 1949, has obtained large amounts of data primarily in the Strait of Georgia and the adjoining inlets, but also in some of the inlets along the west coast of Vancouver Island.

The Pacific Oceanographic Group and the University of Washington dominated the oceanographic activity in this area until the mid-1970's when the Institute of Ocean Sciences (IOS), Patricia Bay, was established. Since then, IOS has been largely responsible for oceanographic data collection on the west coast. Independent consulting firms also began conducting oceanographic surveys in the late 1970's. Consultants have carried out studies for both government agencies and commercial companies.

Figure 2 summarizes the level of oceanographic effort, based on the number of bottle/CTD stations per year. Appendix 1 contains a summary of significant dates in the history of west coast oceanography.

3.1 SURFACE TEMPERATURE AND SALINITY FROM SHORE-STATIONS

Daily observations of sea-surface salinity and/or temperature have been made at various west coast locations since 1934. The stations in this study area are summarized in Table 1 and plotted in Figure 3. Most are lightstations presently operated by the Canadian Coast Guard. Cape St. James

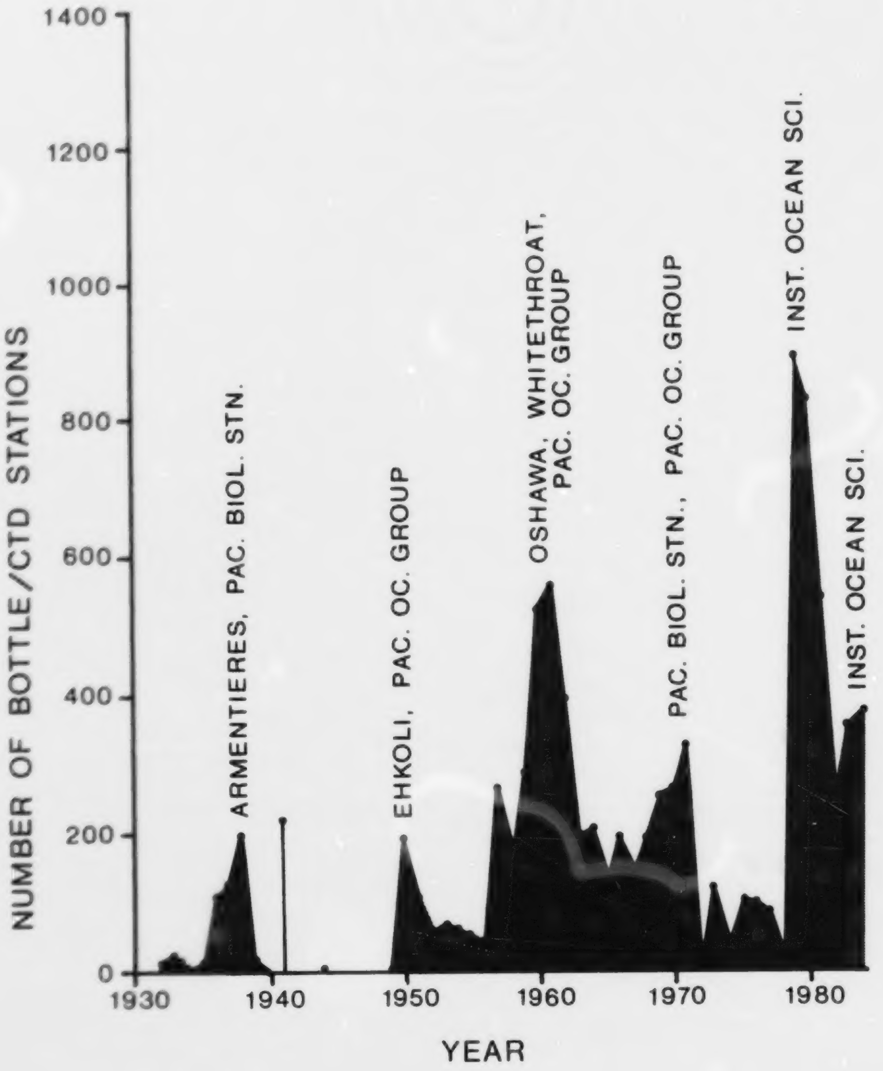


Figure 2: Level of oceanographic effort, based on the number of bottle/CTD stations per year (vessel, agency).

Table 1: **B.C. shore stations--West coast Vancouver Island and Queen Charlotte Islands--surface temperature and salinity.**

Station	Data Set I.D.	Latitude	Longitude	Period of Operation	Date of Conversion from Salinometer to Hydrometer
Langara Island	36-0004	54°15'	133°03'	Oct. 22/36-Aug. 28/37	N/A
	40-0004	54°15'	133°03'	Mar. 2/40-present, (intermittent 1938-1942)	Sept. 23/69
Cape St. James	34-0002	51°56'	131°01'	July 27/34-present[1]	Jan. 1/71
Kains Island	35-0008	50°27'	128°02'	Jan./35-present	Feb. 1/70
Nootka	34-0006	49°36'	126°37'	Sept./34-June/53	Salinometer used exclusively
Amphitrite Point	34-0007	48°55'	125°32'	Sept./34-present	Feb. 23/70
Swiftsure Bank Lightship	54-0024	48°32'	125°00'	June 18/54 June 30/61	Salinometer used exclusively?
Bamfield	69-0064	48°50'	125°08'	July 12/69-Oct./80[2]	Salinometer used exclusively
Cape Beale	71-0104	48°47'	125°13'	Jan. 9/71-present	Salinometer used exclusively
Port Alberni	41-0008	49°14'	124°49'	May/41-Sept./42	Salinometer used exclusively

[1] Intermittent data from 1938-1942. Temperature readings for Jan. 1939-Dec. 1942 are considered unreliable. Salinity observations were discontinued May 31, 1971.

[2] For the period July 1969-Dec. 1977, temperatures were recorded to the nearest 0.5°C only.

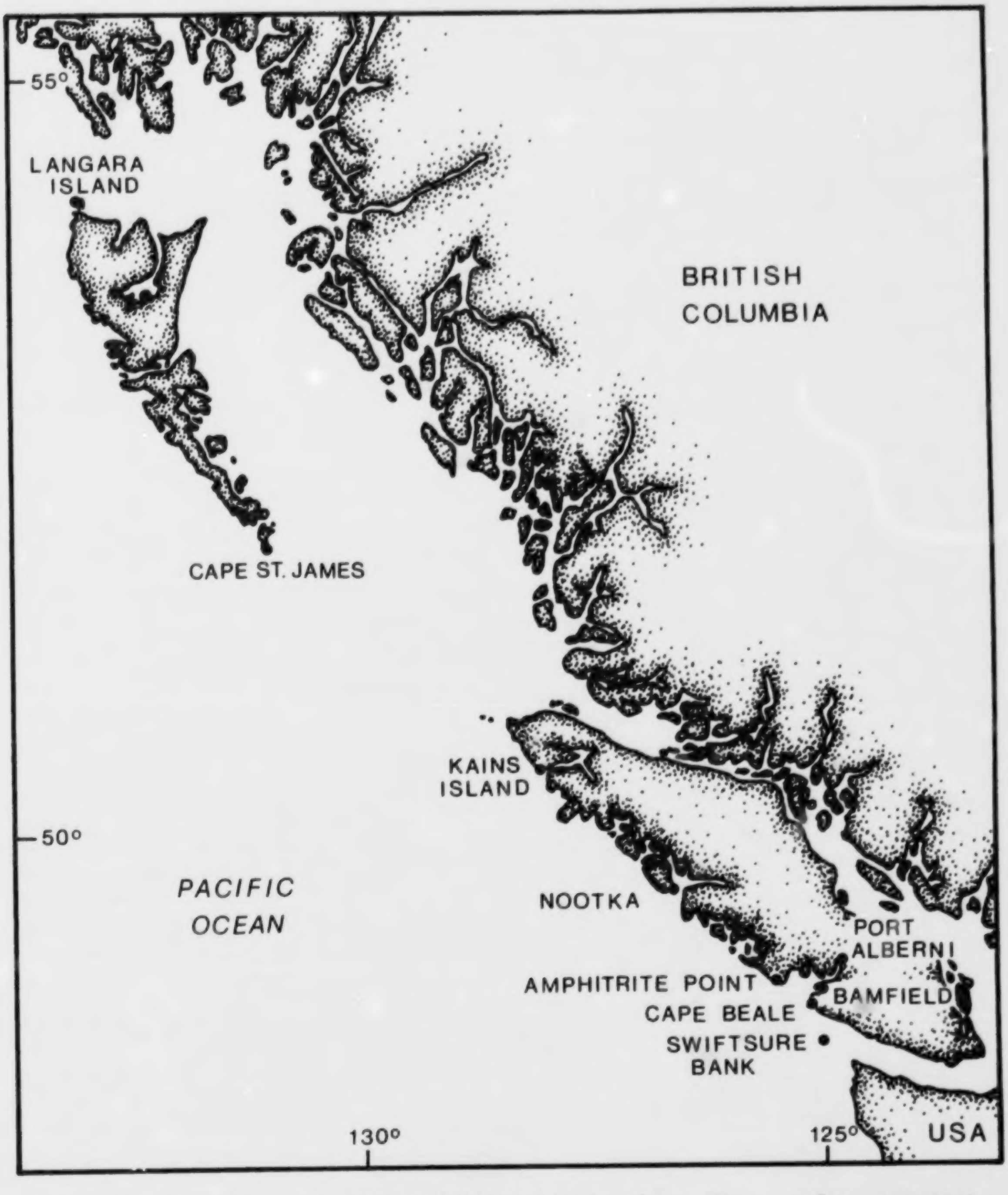

55°
LANGARA ISLAND
BRITISH COLUMBIA
CAPE ST. JAMES
KAINS ISLAND
50°
PACIFIC OCEAN
NOOTKA
PORT ALBERNI
AMPHITRITE POINT
BAMFIELD
CAPE BEALE
SWIFTSURE BANK
130°
125°
USA

Figure 3: Locations of shore and lightship stations where surface seawater observations have been made. Only those within the limits of this data inventory are shown.

is a meteorological station operated by the Atmospheric Environment Service (AES) and Bamfield is an oceanographic research station. The data have been published in various government reports (e.g.: Hollister, 1960; Hollister and Sandnes, 1972; Wickett and Ballantyne, 1978; Giovando, 1983a, b).

Normally, observations are made within an hour of daytime high tide. Temperature and salinity are measured near surface, at approximately 1 m depth. The water sample for salinity determination is collected using either a bucket or a sampling bottle. The temperature is obtained by "immediate" immersion of a thermometer into the water thus collected.

Following are the estimated accuracies of the various methods used to determine temperature and salinity.

A. Temperature

1.	1934-1936	Mercury thermometer	±0.5°F, ±0.3°C
2.	1937-1939	Red-liquid thermometer	±0.5°F, ±0.3°C
3.	1940-present	Mercury thermometer	±0.3°F, ±0.2°C

B. Salinity

1.	1934-1958	Titration	±0.06°/oo
2.	1959-1969 (approx.)	Conductivity salinometer	±0.03°/oo
3.	Approx. 1969-present	Hydrometer (except as below)	±0.3°/oo
4.	Bamfield & Cape Beale	Inductive Salinometer	±.02°/oo

The actual dates of conversion from salinometer to hydrometer are given in Table 1.

4. GENERAL REPORT LAYOUT AND USER INSTRUCTIONS

4.1 DATA SETS

The data are organized in sets, where each set consists of data of a common type taken on a single expedition or cruise[1], usually by a single institution or organization. Thus, unless otherwise noted, all the data within a single set is assumed to have been collected in a uniform manner and should conform to a common standard of measurement.

Each data set has been assigned an identification number of the form yy-nnnn, where yy = last 2 digits of the year in which the data were collected and nnnn = order of identification for that particular data set for that year. The data-set number is a unique identifier which applies throughout the entire series of inventories; any set identified, for example, as 72-0009 is the same data set no matter where reference to it is made. Gaps may appear in the sequence of data set numbers in this inventory for a particular year, because each data set will not appear in every discipline or geographical area.

---

[1] In some cases, where similar sampling techniques were used, several cruises have been grouped into one data set. This was done prior to the commencement of this study. In these cases, letter suffixes have been used to differentiate different cruises.

4.2 INVENTORY ORGANIZATION

Table 2 (Section 8) lists all the data sets in the inventory in order of data-set number. It provides a summary description of each set, including the times, areas and methods of measurements. Table 2 also gives a listing of concurrent measurements from other disciplines.

Geographical and measurement-type indexes are in Section 10. The sub-areas in the geographic index are shown on the map in Figure 21. Section 10 also contains an index of references, ordered by data-set number. This index consists primarily of original data reports, although ancillary papers analyzing or discussing the data are listed if they came to our attention.

Measurement locations are plotted in a series of maps in Section 9. Four different maps, all in Lambert Conformal Conic projection, have been used to plot stations. In most cases, the overall map of the entire study area is used, along with one or more of the larger-scale maps. The coastlines have been smoothed, and small islands removed, to avoid clutter. In order to avoid overlap, a displacement of 0.1 inches was required before successive stations were plotted. Map specifications and a key to the symbols on the maps are presented at the beginning of Section 9.

Detailed listings of the times and locations of individual measurements are given in Section 11. There is a separate listing for each data type. The format of the listings is explained at the beginning of Section 11.

Data sets were rated according to the criteria in Section 5. The ratings are listed in Table 2. Appendix 2 contains comments explaining the reasons for low ratings, a list of any errors found in each data set, and any other pertinent remarks concerning the data. The comments are ordered by data-set number.

Section 6 contains a general description of the extent of the data available in this area. Sections 6.1 and 6.2 describe their geographical and seasonal distribution.

4.3 SAMPLE USE OF THE INVENTORY

A typical use of the inventory might be as follows:

1. Examine the maps in Section 9 for measurements during the year(s) of interest, and note the data-set numbers of interest.
2. Refer to Table 2 to find the range of measurement dates, the measurement methods, and accuracies, and data sources.
3. If more specific information is required concerning the timing or location of individual measurements in the set, refer to the listings in Section 11.
4. Consult the reference index in Section 10 for works referring to or using the data.

5. DATA RATING AND APPRAISAL

5.1 TYPES OF DATA

5.1.1 BOTTLE CAST DATA

These data consist of temperature and salinity measurements obtained at discrete depths (ideally the international standard depths) by means of reversing thermometers and sampling bottles. Temperature accuracies of ±0.01°C may be achieved by averaging two or more carefully-read, well-calibrated thermometers. Some investigators have used hydrometers (±0.2°/oo) and refractometers (±0.5°/oo) for the determination of salinity, but up to 1960 salinity was usually obtained by titrating water samples drawn from the bottles; replicate titrations in the hands of a good operator could yield results precise to ±0.01°/oo. In the 1960's, salinometers measuring salinity via the conductivity of the sample replaced titrations. A precision of ±0.003°/oo can be obtained with the better instruments, although in the past, systematic errors of ±0.02°/oo or more could be introduced by variations in the standard water used to calibrate the instruments. New international standards for salinity should eliminate the latter source of error (Lewis and Perkin, 1978).

5.1.2 CTD DATA

CTD data are produced by in-situ profiling instruments variously called STD (salinity-temperature-depth), STP (salinity-temperature-pressure), CTD (conductivity-temperature-depth) or CTP (conductivity-temperature-pressure) profilers. Fundamentally, all are CTP devices; the variations in output and name depend solely upon the degree of internal data processing. All instruments perform the same basic function of measuring (more or less continuously) temperature and conductivity as a function of pressure. The precision achievable with such devices depends upon the individual instrument. The best are capable of a precision of ±0.005°C and ±0.005°/oo, although accuracy in salinity, until recently, was limited to approximately ±0.02°/oo because of the inconsistencies in salinity standards and definitions (Walker and Chapman, 1973).

5.1.3 BATHYTHERMOGRAPH

The bathythermograph (BT) is a thermo-mechanical device which measures water temperature as a function of pressure. Its information is recorded as a trace, on a smoked-glass or gold-coated slide, which can be read to an accuracy of ±0.2°C and ±2 m depth if the instrument is well calibrated. The BT was widely used in conjunction with bottle casts but has largely been superseded by the CTD. XBT's are the expendable variety. BT data have not generally been compiled, unless they were accompanied by other physical oceanographic measurements. The Pacific Biological Station (PBS), Nanaimo, collected large amounts of BT data beginning in the 1950's and most of these data are on file with the Marine Environmental Data Services Branch of the Department of Fisheries and Oceans (MEDS). The 1977-1981 BT data are published in Dodimead et al. (1979a, b) and Dodimead and Ballantyne (1980, 1984). Earlier BT data have been reported by various authors, including Partlo (1950), Manzer and Neave (1958), Ballantyne (1978) and Douglas and Wickett (1978).

5.1.4 SELF-RECORDING CURRENT METERS

By the 1970's oceanographers could practically and reliably place and recover self-recording current meters in the water column. Meters of this type generally record internally on magnetic tape (in some models photographic film or paper charts are used), or telemeter data to a ship or to a shore receiving station. They generally provide time series of current speed and direction, and may have other sensors (for measuring temperature, pressure or conductivity) mounted as well. Current speed and direction are usually measured by one of two methods: either by a propeller or rotor for measuring speed and a vane for direction sensing, or by measurement of two orthogonal components of the current speed. Component speeds may be measured by propellers, or by electromagnetic or acoustic speed sensors. Directional reference is usually provided by a magnetic compass. Commonly used instruments employing the propeller/rotor and vane system are the Aanderaa, Hydroproducts, Endeco and AMF (vector-averaging) current meters; those employing the component-measuring system include the Cushing and Marsh-McBirney instruments (electromagnetic), the Neil Brown (acoustic), and the Davis-Weller (orthogonal-propeller) instruments.

The precision and accuracy of current meters depend to a great degree both on the design of the instrument, and on the environment in which it is used. Serious problems may be encountered if rotor-type meters are used in the wave zone. Calibration drift and sensor fouling can interfere with satisfactory operation of electromagnetic and acoustic sensors. The sampling frequency and integration period selected for the meter can also affect the accuracy of the record.

5.1.5 PROFILING CURRENT METERS

These current meters provide a series of point measurements of current speed and direction at several depths throughout the water column. Meters used for this purpose are generally of the propeller or rotor and vane design, the oldest common example being the Ekman-Merz meter. Measurements usually are taken from an anchored ship in shallow water. In water too deep for anchoring, a very good positioning system is required to correct for ship movements. Unless repeated profiles were taken so as to form a time series, this type of data was not generally catalogued. Recently Cyclesondes have been used for profiling. This instrument can be fitted to measure currents as well as other parameters, and oscillates vertically up and down a tether, unattended.

5.1.6 CURRENT DRAGS

This method of current determination was employed primarily in the 1950's and early 1960's. A tethered drogue was allowed to drift away from the anchored vessel. The time for a measured length of line to pay out provided a measure of current speed. The direction of flow was estimated from the course of the drogue. The drogues were typically crossed metal vanes, having slight positive buoyancy. Accuracy of speed and direction were seldom discussed. It is believed that speed measurements should be accurate to ±5 cm/s or better. The accuracy of the direction measurement would vary depending on what method was used. For example, a compass reading should provide a reading to ±5° or so, whereas an estimate based on land features and chart would generally not possess such accuracy.

5.1.7 RADAR OR AIRCRAFT-TRACKED DRIFTERS

This type of drifter usually consists of a float (with or without a drogue) and a radar reflector or visual marker. These devices can be tracked visually or by radar from shore or from a ship or aircraft. The accuracies achievable depend upon the tracking system used, and can be very good if a sophisticated system is available. Data of this type are often limited in their coverage in space and time, and may have gaps resulting from bad weather. (Drift card and bottle releases have not been inventoried. See for example Dodimead and Hollister, 1962; Waldichuk 1963; and Pashinski and Charnell, 1979.)

5.1.8 SATELLITE-TRACKED DRIFTERS

Satellite-tracked drifters are a comparatively recent invention, dating from the early 1970's. Widespread use of these devices began after the launch of the Nimbus VI satellite carrying the Random Access Measurement System (RAMS) in 1975. In early 1979, the TIROS-N satellite was launched activating Service ARGOS which is now used to track all such devices.

Both RAMS and System ARGOS compute position from the Doppler shift of a signal transmitted from the buoy to the satellite. On each pass of the satellite the position (and any other data being measured) is received and sent to a ground facility where the data are processed. Both the RAMS and ARGOS systems produce positional accuracies of approximately ±2 km.

Recently it has become possible to use the LORAN-C system to track drifters.

5.1.9 WATER LEVEL GAUGES

Water-level data are produced mainly by visual observation of tide staffs, by mechanical shore-mounted float-type gauges, or by bottom-mounted pressure gauges. Some early data consist only of observations of the times of high and low water levels. The pressure gauges may be self-contained, or they may consist of a pressure sensor connected to a shore-mounted recording device. The mechanical gauges record by means of a pen on chart paper. The data are usually digitized at hourly intervals, resulting in a record with a resolution of approximately ±1 cm, and an accuracy of the order of ±5 to 10 cm. Most pressure gauges use Paroscientific digiquartz sensors with stated resolution/accuracy of 0.001/0.01% full-scale range. The Aanderaa gauges have ranges of 45, 100, 200, 300, 400, 900 and 5,000 psi. The 400 psi is the most common, with the claimed resolution/accuracy being equivalent to ±0.27/2.7 cm. Sampling intervals generally vary between 5 and 60 minutes. Bottom pressure gauges generally record total pressure (atmospheric plus hydrostatic). In order to extract the water level fluctuations due to changing atmospheric pressure (i.e. the inverted barometer effect), the atmospheric pressure must also be recorded. The Canadian Hydrographic Service (CHS) has collected most of the water-level data; such information was first recorded in 1905.

5.1.10 WAVE RECORDERS

There are three basic types of wave-measuring devices for measurement from a single point:

a) Surface-piercing instruments. These are fixed relative to the water level and measure surface motion using various methods such as the change in capacitance of a vertical wire.

b) Pressure-measuring devices. Ocean waves produce measurable pressure fluctuations beneath them which, under proper conditions, can be related to wave height.

c) Instruments which measure the vertical acceleration of the water surface. When integrated twice in time, the vertical acceleration yields sea-surface elevation relative to the mean.

In shallow water, types a) and b) are generally used, whereas type c) is more suited to deeper waters. Generally, Waverider accelerometer-type buoys have been used in most studies off the Canadian west coast.

5.2 DATA RATING SCALE

5.2.1 RATING CRITERIA

The data appraisal in this inventory is intended to provide the reader with an indication of the quality of each data set and its suitability for comparison with other data sets. The appraisal was based primarily on documentation describing the methods used in collecting and processing the data and on the investigator's estimate of their precision, accuracy and utility. Subsequent analyses of the data were also taken into account, e.g. if errors were found in a particular data set during a subsequent analysis, and the results were published, these results were used in the assessment. Note that a thorough appraisal, requiring investigation of the data and comparisons with other data sets, is beyond the scope of this report.

The information from the sources above was used to assign a numerical rating to each set. The rating system has five levels, defined as follows:

0: Data are found to be wrong.

1: Data are suspect because of ill-defined doubts.

2: Data quality could not be determined due to insufficient support documentation.

3: Data are internally consistent - patterns or trends within the data themselves are probably real, but comparison with other data sets may pose problems.

4: Data are internally consistent and exhibit sufficient standardization that comparison with other _4_-rated data should be possible.

If a single rating has been asigned, this number applies to all the data acquired during that cruise. If data sets were of different quality, for example the CTD and current-meter data, then more than one number will be indicated.

5.2.2 ASSIGNMENT OF RATINGS

0 RATING

A data set received a 0 rating if serious deficiencies in technique, or significant systematic errors, occurred. A 0 rating was also assigned if the documentation of the data set lacked essential information (e.g. the positions and times of measurements) which no longer exists.

1 RATING

A data set received a 1 rating if, either as part of a data report or in subsequent analysis and examination, the original or other investigators questioned the validity of the data without pinpointing specific errors. In general, a 1 rating was assigned if a data set exhibited an atypical distribution of values, or indicated unlikely physical processes, but contained no obvious errors. Such data sets require careful examination before use.

2 RATING

Ratings of 2 were given to data sets for which it was not possible to carry out an appraisal. Such cases include:

(i) Proprietary data, whose existence is known, but about which no details are available.

(ii) Data sets for which we were unable to obtain documentation but know that data were collected.

3 RATING

Data received a 3 rating if they were internally consistent within the precision of the methods used to collect the data. Precision refers to the degree of random fluctuation experienced when a measurement is repeated many times, while accuracy is the departure of the measurement (or the mean of a series made under controlled conditions) from the true value. Because oceanographic data are normally taken without replication and under uncontrolled conditions, data taken with instruments of a certain precision will have the same (or poorer) level of accuracy. An exception is the case of a series of temperature-salinity measurements taken within a water body of stable, well-defined characteristics, in which case the mean of the series could provide a measurement more accurate than the precision.

Ratings of 3 were given to all data sets for which no evidence of errors beyond the precision given in Table 2 was found, but which did not satisfy each of the criteria required for a rating of 4 (see below). This is based on data reports and other publications; the actual data were not checked further by the authors of this inventory. In some instances, the instrument and/or precision and accuracy were unknown, but the collecting agency used standardized methods; these data sets were generally awarded a 3 rating when there was no evidence suggesting deficiencies in the data.

Caution should be exercised when comparing two sets of 3-rated data, as their levels of precision may be quite different. The reader should consult both Table 2 and Appendix 2 for precision and error information.

4 RATING

Data received a rating of 4 if: they were measured to the precision available with modern methods described in Section 5.1; they had no evidence of systematic or other errors recorded in the documentation; and they were obtained using measurement instrumentation, methodology and techniques which provide data that can be related to national or international standards.

Since standards tend to change, ratings of 4 were only grudgingly awarded. In many cases, ratings of 3 were assigned because of lack of time and/or sufficient documentation to be certain that a rating of 4 was warranted. Some of these ratings may merit an increase to 4 after further study of the data has been made.

Of all the physical-oceanographic data that were inventoried, the bulk consists of temperature/salinity measurements. Until the early 1960's, water samples were collected by bottle cast and salinities were determined by titration. During most of the 1960's, salinities were generally determined using conductivity bridges. From the late 1960's on, instruments which measured conductivity and temperature in situ (CTDs) became the standard. Salinity was then computed from the temperature, conductivity and pressure values.

CTDs with increased resolution have revealed gradations in salinity where previous chemical analyses indicated homogeneous water. Since both bottle and CTD data may have ratings of 3, caution must be used in any comparison.

Salinity determination depends on a standard. In the past this was $35^{\circ}/oo$ Copenhagen water. However, variability in the standard, and in the calibration of the instrumentation, often resulted in systematic errors of $0.02^{\circ}/oo$ or more.

A new, practical salinity scale has recently been adopted (Lewis and Perkin, 1978). A conductivity ratio is measured (the conductivity of the unknown to that of a standard laboratory-produced sample). Waters of the same conductivity ratio at a given temperature and pressure are then defined to have the same salinity. This reduces systematic errors in salinity. However, most of the historical data remains subject to a $\pm 0.02^{\circ}/oo$ accuracy limitation.

Current-meter data were judged by the instrument characteristics, response, and the deployment methods. The main causes of low ratings are directional errors and contamination by mooring motion and by wave-orbital velocities.

6. SUMMARY OF DATA COVERAGE

6.1 SPATIAL COVERAGE, INCLUDING DATA DISTRIBUTION MAPS

The locations of all measurements inventoried to date are summarized for bottle/CTD (Figure 4), current-meter (Figure 5), water-level (Figure 6), and wave data (Figure 7).

The location maps of all temperature-salinity data have been split into pre-1970 and 1970 through 1984. Prior to 1970, most temperature-salinity data were obtained using bottle casts. Standard depths at which data were collected were 0, 10, 20, 30, 50, 75, 100, 150, 200, 300, 400, 500 and 600 m. Most of the 1970 through 1984 data were obtained using in-situ profiling instruments having vertical resolution on the order of centimetres. Temperature-salinity stations are most concentrated nearshore, over the continental shelf and slope. After 1969, fewer stations were occupied in water depths of greater than 2000 m. The waters adjoining Vancouver Island, particularly off the entrance to Juan de Fuca Strait, have been heavily sampled. The coastal inlets and fjords which have received the most attention are Barkley Sound/Alberni Inlet, Tofino Inlet/Bedwell Sound, Muchalat Inlet, Tahsis Inlet/Zeballos Inlet, and the Quatsino Sound-Rupert/Holberg inlet system.

Most of the current-meter data have been collected since 1970, along the continental shelf and slope (Figure 5). Alberni Inlet and the Quatsino Sound area have been sampled fairly frequently.

The distribution of water-level measurement locations is dominated by coastal and nearshore sites (Figure 6). Some data have been obtained in the shelf/slope region, mainly off Vancouver Island. Data from well offshore have been limited to two sites: Bowie and Union seamounts.

Wave data have been restricted to the continental shelf region off Vancouver Island, except for one site offshore which has been maintained by NOAA since 1976.

6.2 SEASONAL COVERAGE, INCLUDING BI-MONTHLY MAPS

Bi-monthly station maps have been produced for temperature-salinity data (Figures 8-13), and for current and water-level data (Figures 14-19). In each figure the locations of available measurements are plotted according to the two-month period in which the data were obtained, beginning in January-February, and continuing through to November-December. Separate plots are produced for pre-1970 and 1970 through 1984. In general, more data were collected during spring, summer and fall than in winter.

Temperature/Salinity

The waters off Vancouver Island have been sampled during all seasons, as have Alberni Inlet, Muchalat Inlet and the Rupert/Holberg inlet system. Data to the west of the Queen Charlotte Islands are not as plentiful during winter months as they are during the remainder of the year.

Current

Currents over the continental shelf and slope region have been monitored during each bi-monthly period (Figures 14-19). These data were collected recently by IOS. Measurements of currents further offshore have been far less frequent. Currents in Alberni Inlet and the Rupert/Holberg inlet system have also been measured during all seasons.

Water-Level

The seasonal distribution of offshore water-level data is much the same as for current data, since the gauges generally share the same mooring (Figures 14-19). Water levels have been monitored over the continental shelf and slope during each bi-monthly period, both off Vancouver Island and off the Queen Charlottes. Nearshore stations, particularly along the west coast of Vancouver Island and (less frequently) the Queen Charlottes, have resulted in a large data base covering all months.

6.3 CONCLUSIONS

This catalogue of physical-oceanographic data for the waters off British Columbia allows scientists and others to determine the coverage and quality of data in any given area. This report shows that the continental shelf and slope have been heavily sampled, whereas the offshore abyssal waters have received less attention. Coastal studies have generally been site-specific with Alberni Inlet, Muchalat Inlet and the Rupert/Holberg inlet system receiving the most scrutiny.

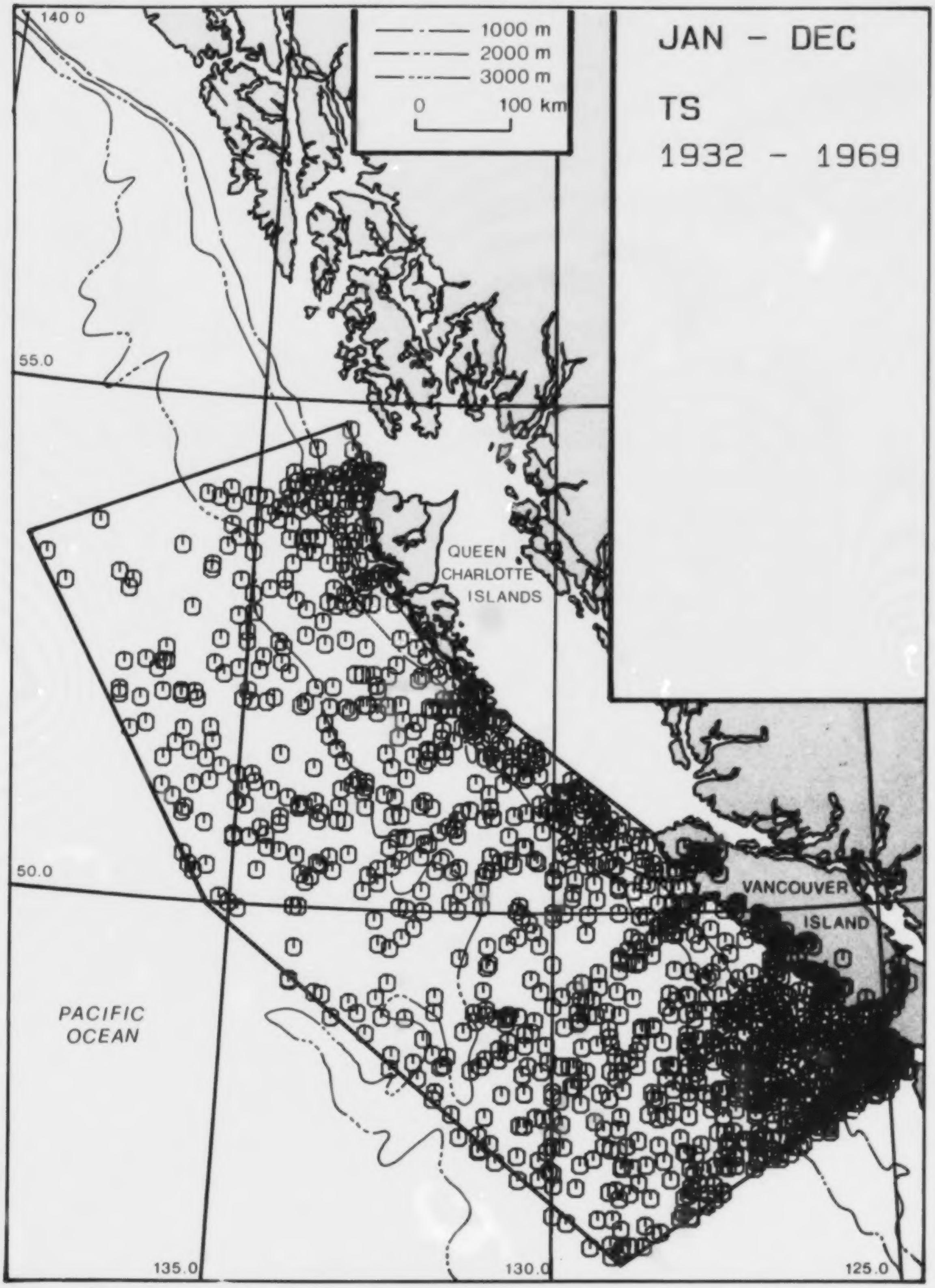

140.0
1000 m
2000 m
3000 m
0
100 km
JAN - DEC
TS
1932 - 1969
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 4a: Locations of all temperature-salinity measurements (4801 stations) made during 1932-1969, entire area.

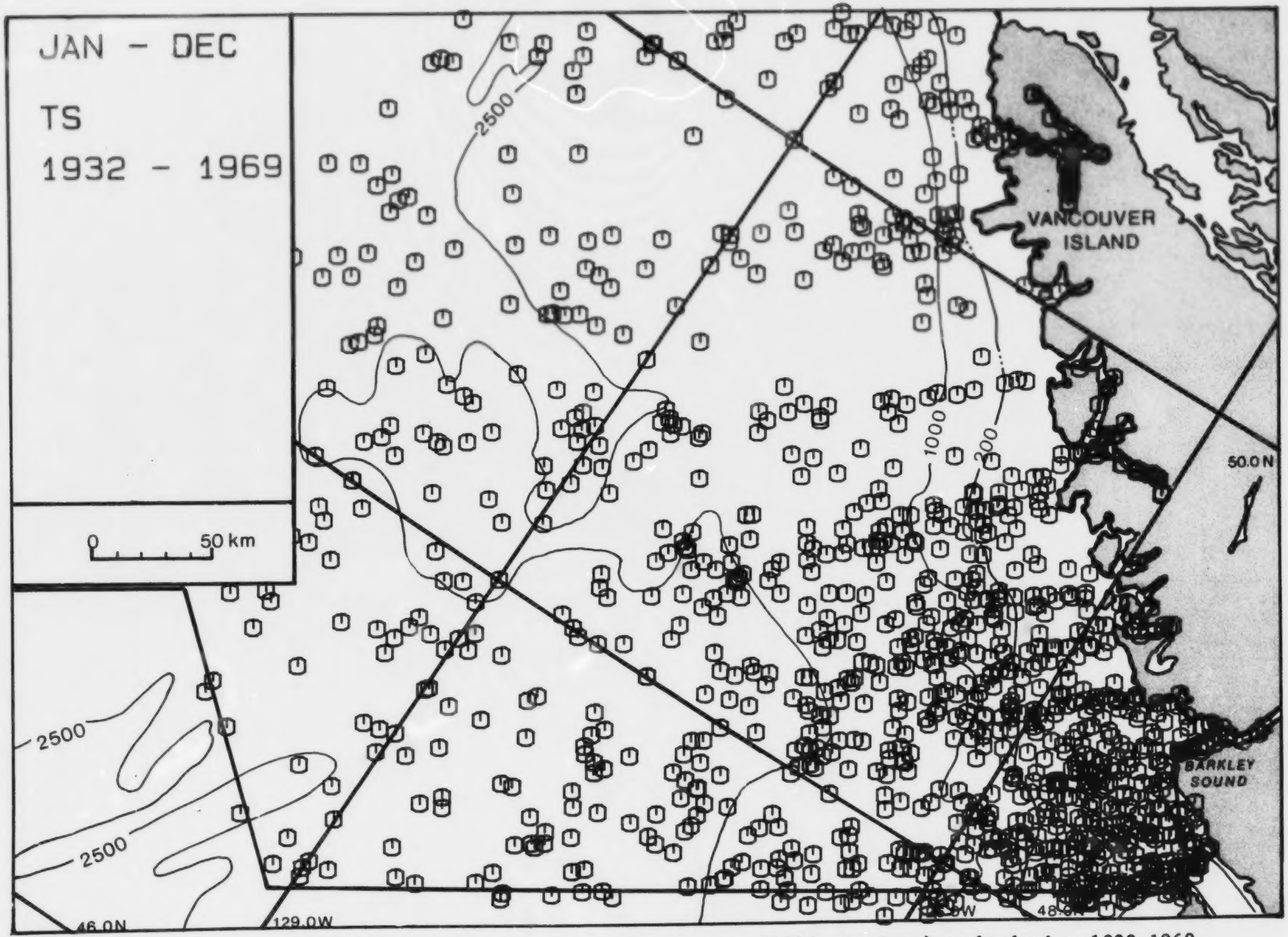

JAN - DEC
TS
1932 - 1969
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0 N
46.0 N
129.0 W
2500
2500
2500
2500
1000
200

Figure 4b: Locations of all temperature-salinity measurements (2926 stations) made during 1932-1969, offshore Vancouver Island.

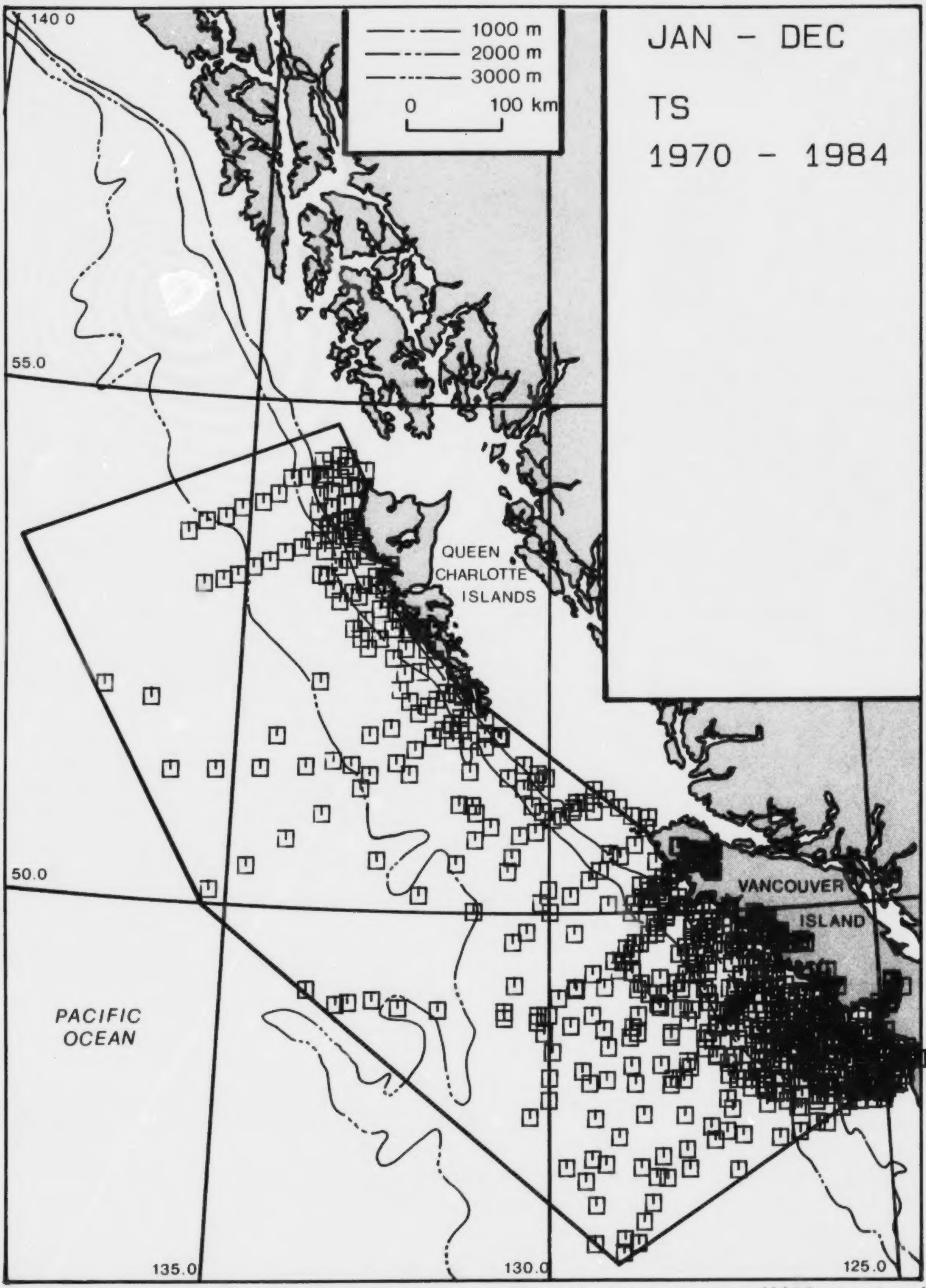

140 0
1000 m
2000 m
3000 m
0
100 km
JAN - DEC
TS
1970 - 1984
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 4c: Locations of all temperature-salinity measurements (4415 stations) made during 1970-1984, entire area.

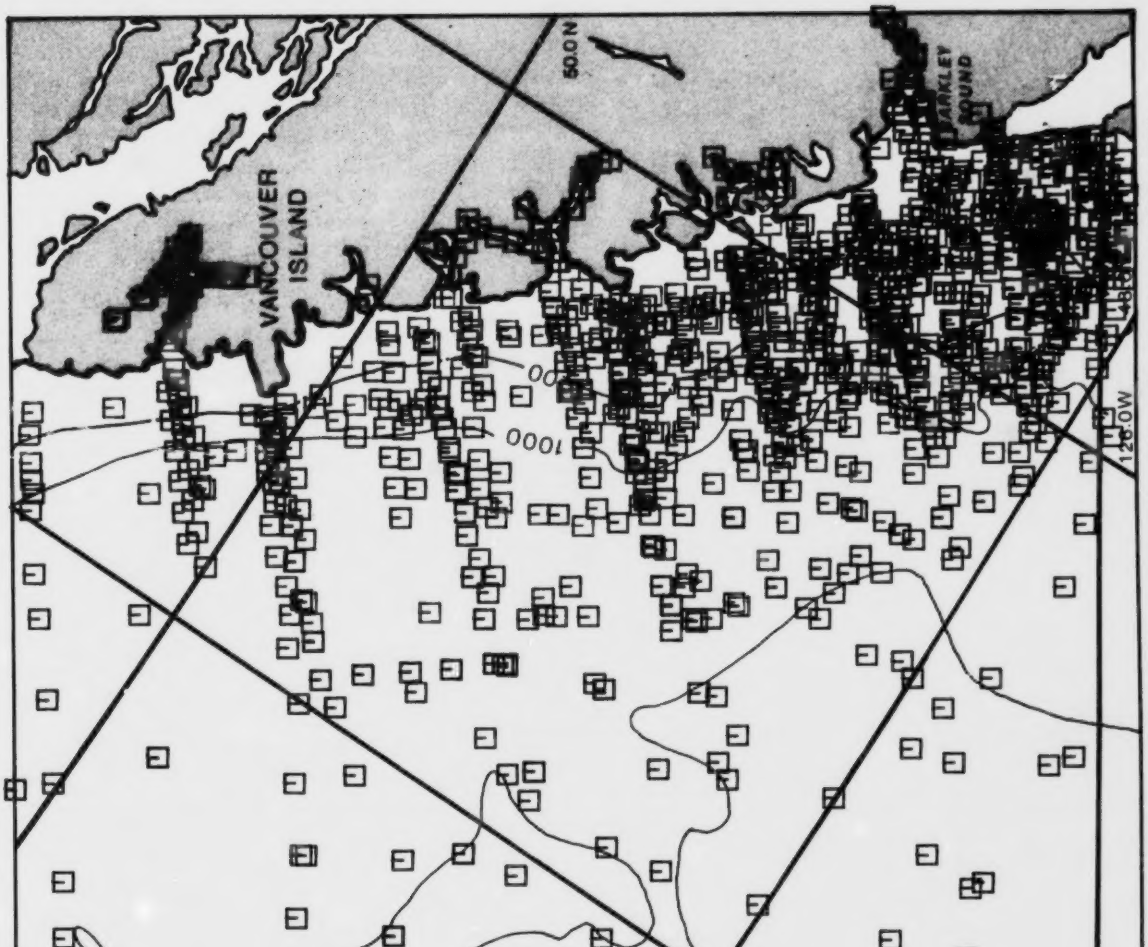

JAN - DEC
TS
1970 - 1984
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
129.0W
126.0W
1000
1000
2500
2500
2500

Figure 4d: Locations of all temperature-salinity measurements (3495 stations) made during 1970-1984, offshore Vancouver Island.

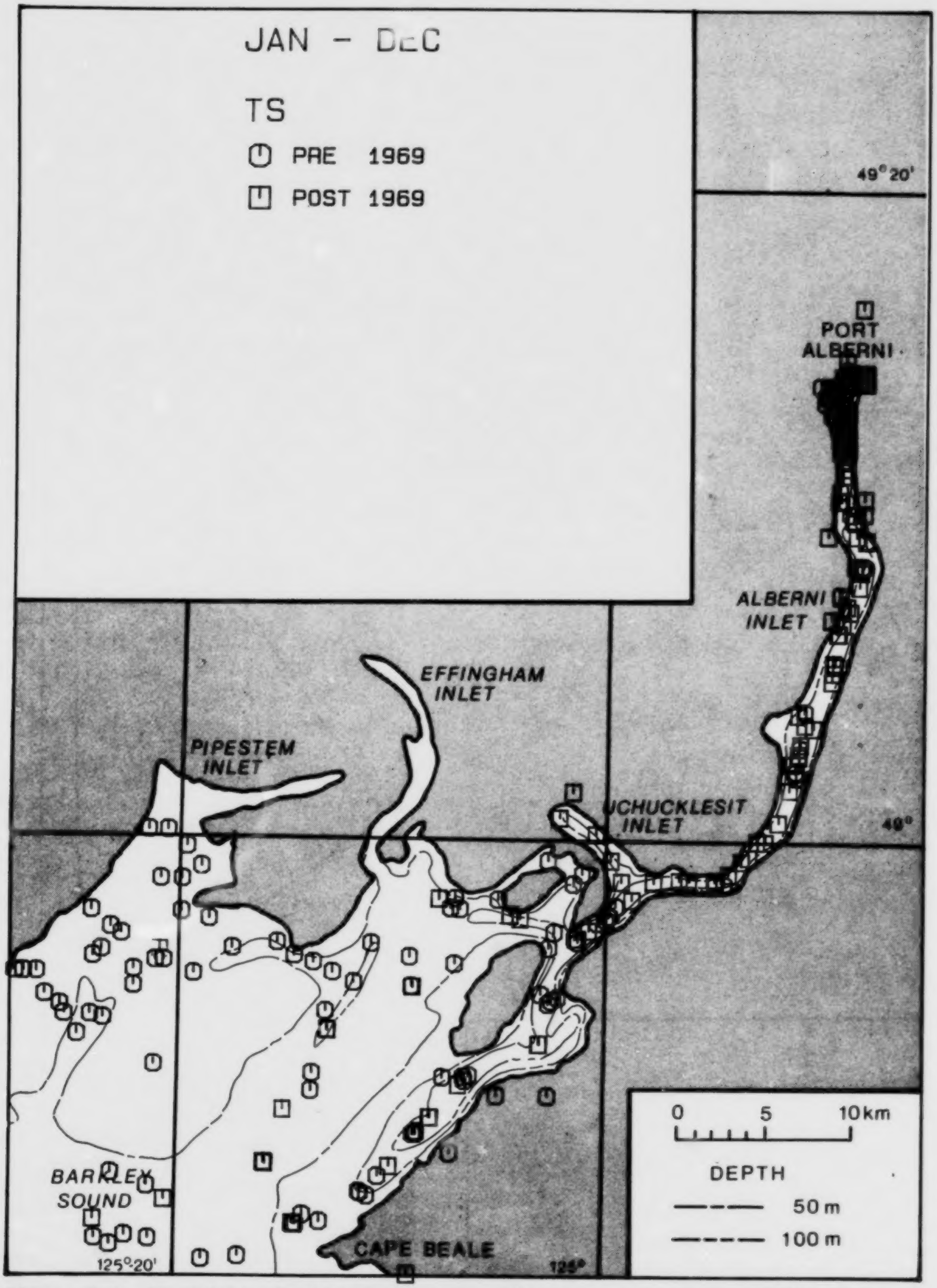

JAN - DEC
TS
PRE 1969
POST 1969
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

Figure 4e: Locations of all temperature-salinity measurements (1843 stations) made during 1932-1984, Barkley Sound and Alberni Inlet.

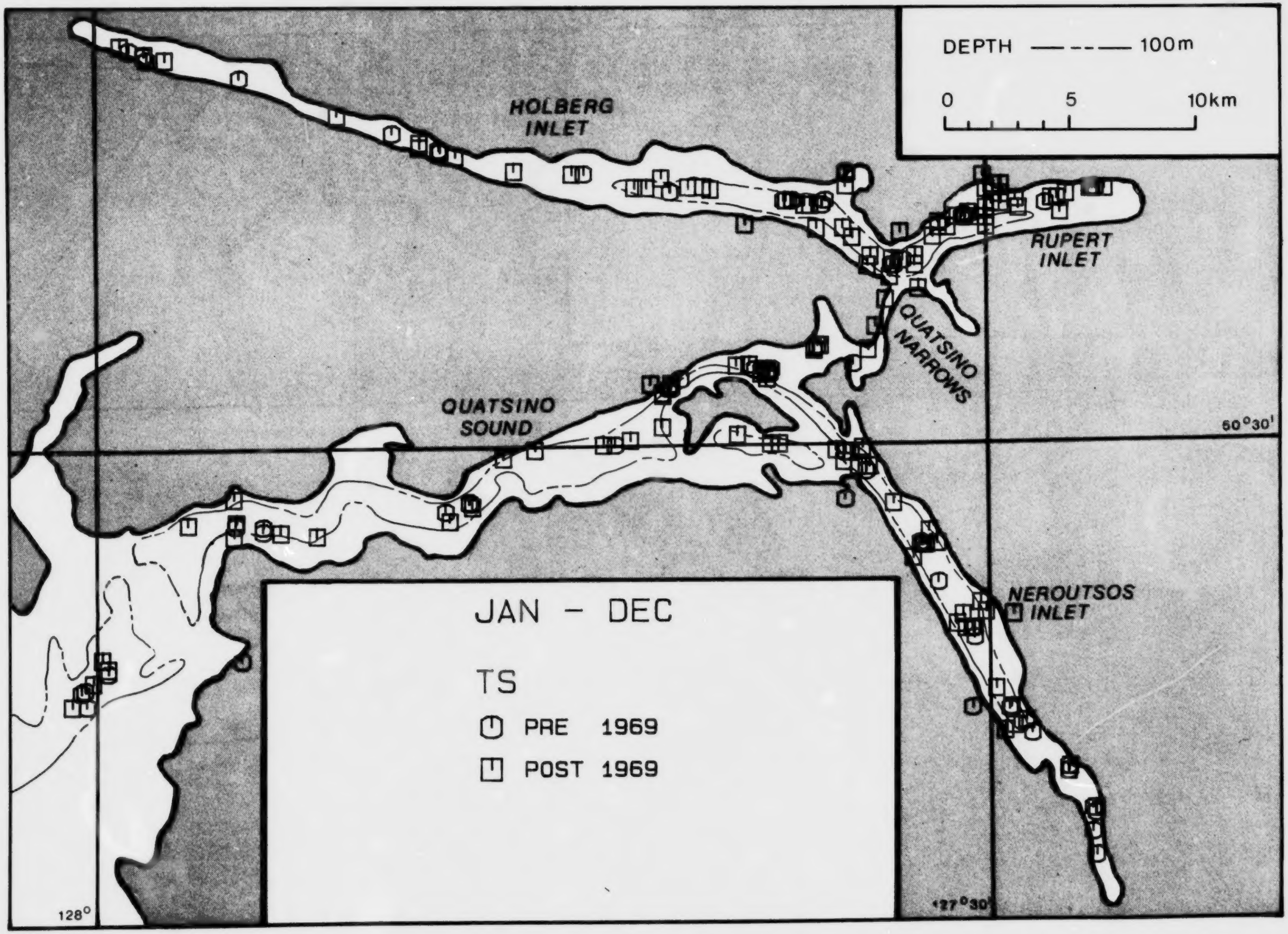

DEPTH ——-—-—— 100m
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
60°30'
127°30'
128°
JAN - DEC
TS
PRE 1969
POST 1969

Figure 4f: Locations of all temperature-salinity measurements (803 stations)made during 1932-1984, Quatsino Sound and adjoining inlets.

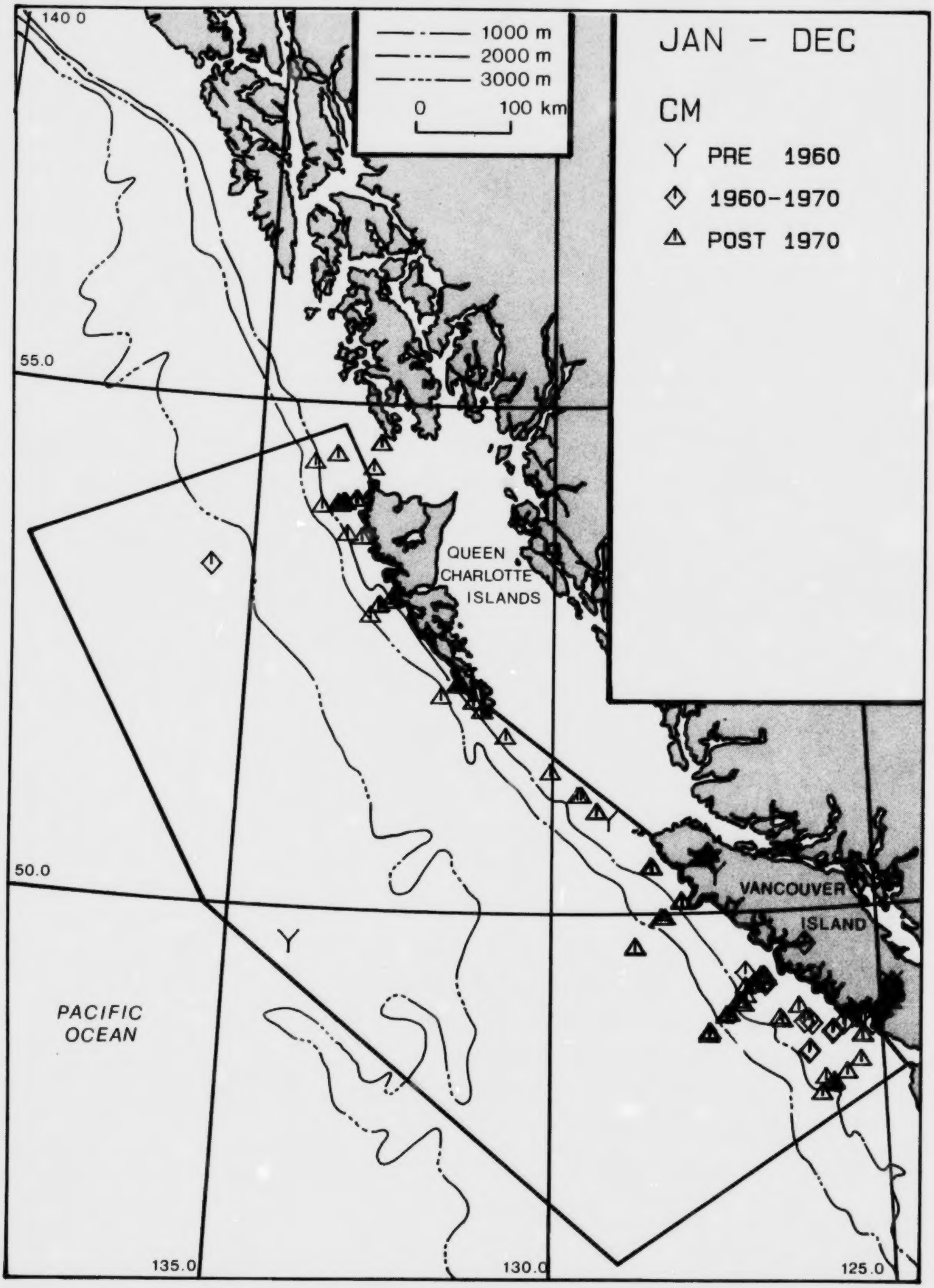

1000 m
2000 m
3000 m
0
100 km
JAN - DEC
CM
Y PRE 1960
◇ 1960-1970
△ POST 1970
140 0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

Figure 5a: Locations of all current-meter measurements (526 records) made during 1932-1984, entire area.

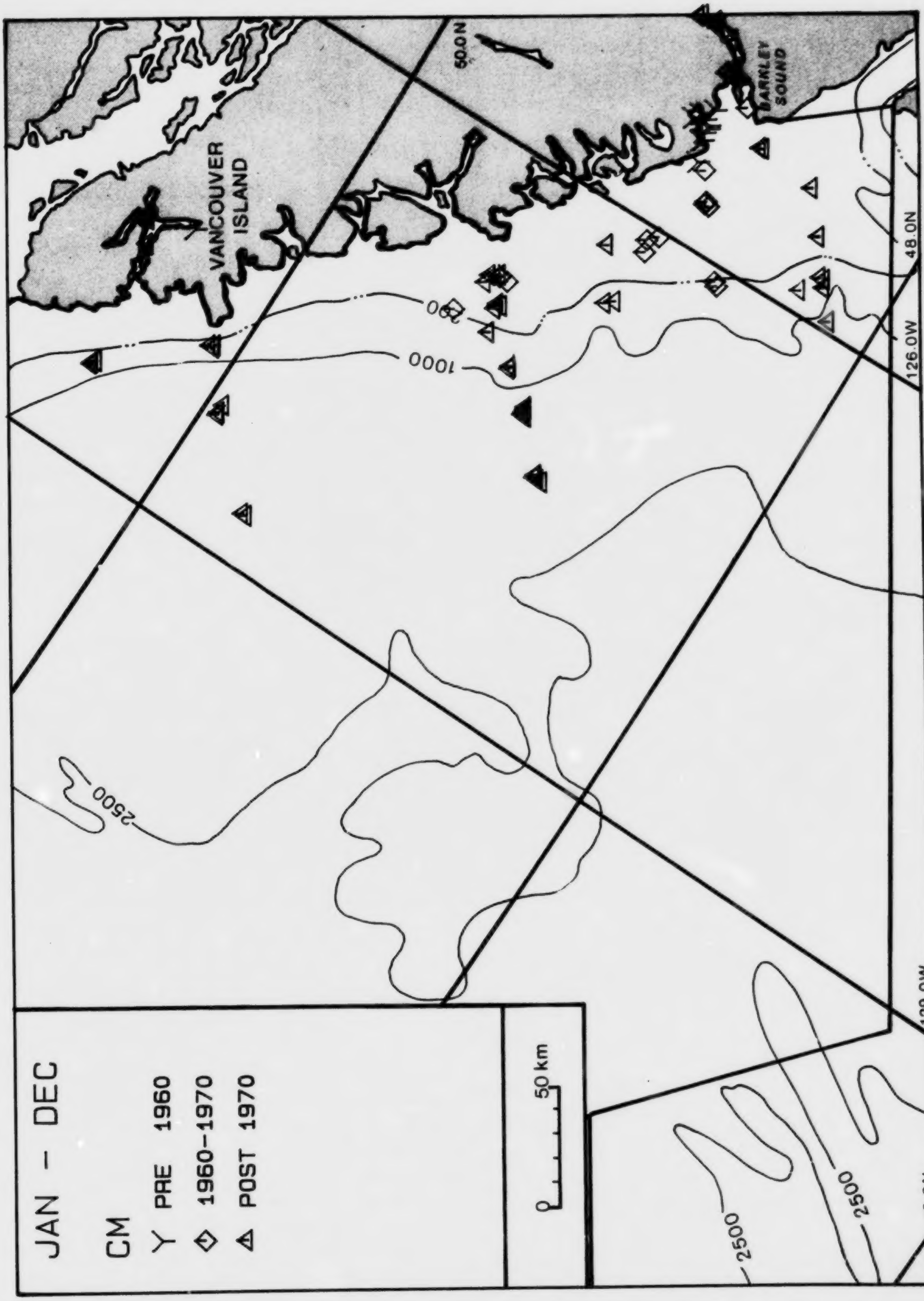

JAN - DEC
CM
Y PRE 1960
◇ 1960-1970
△ POST 1970
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

Figure 5b: Locations of all current-meter measurements (369 records) made during 1932-1984, offshore Vancouver Island.

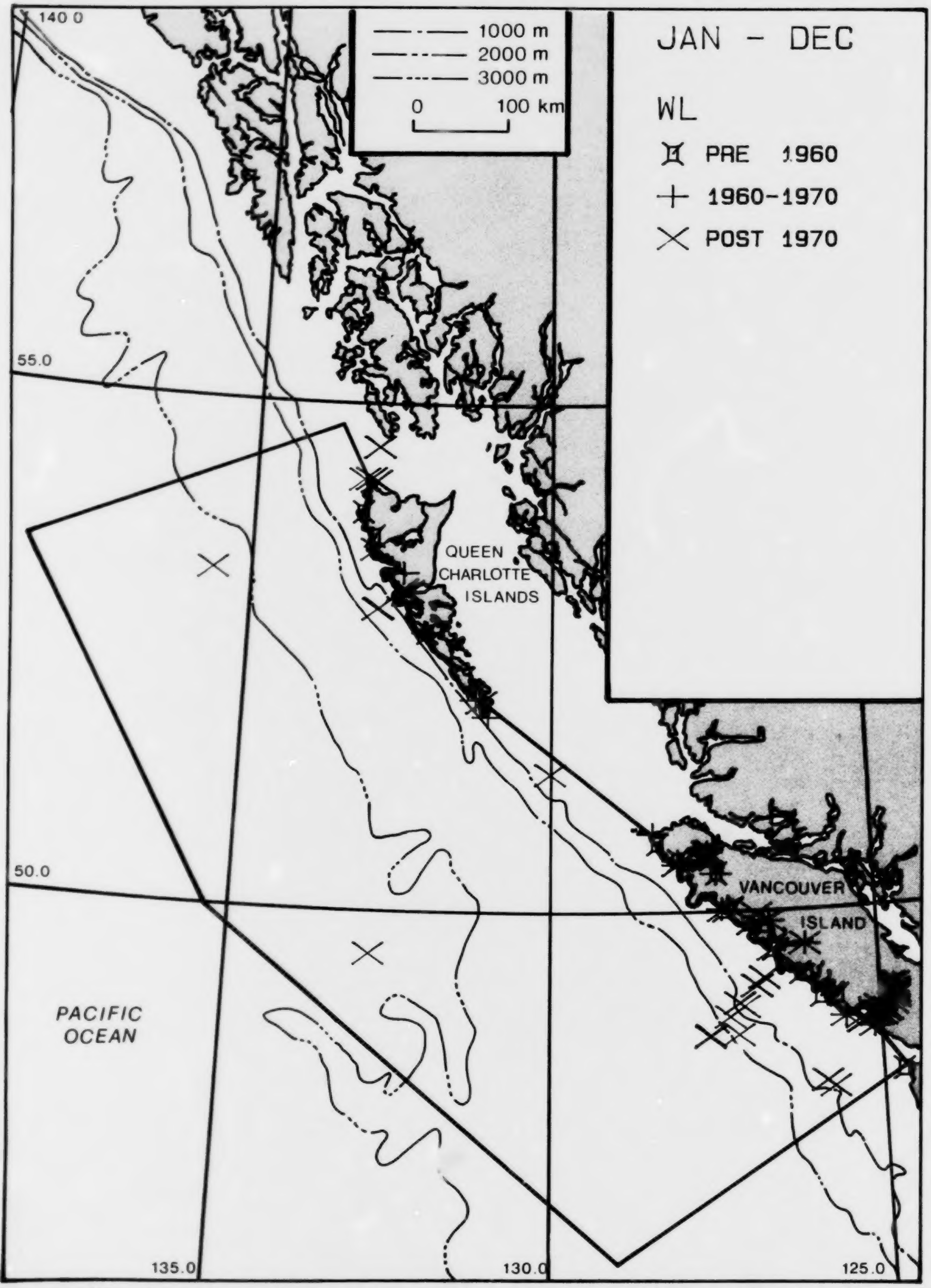

1000 m
2000 m
3000 m
0
100 km
JAN - DEC
WL
PRE 1960
1960-1970
POST 1970
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

Figure 6a: Locations of all water-level measurements (157 stations) made during 1932-1984, entire area.

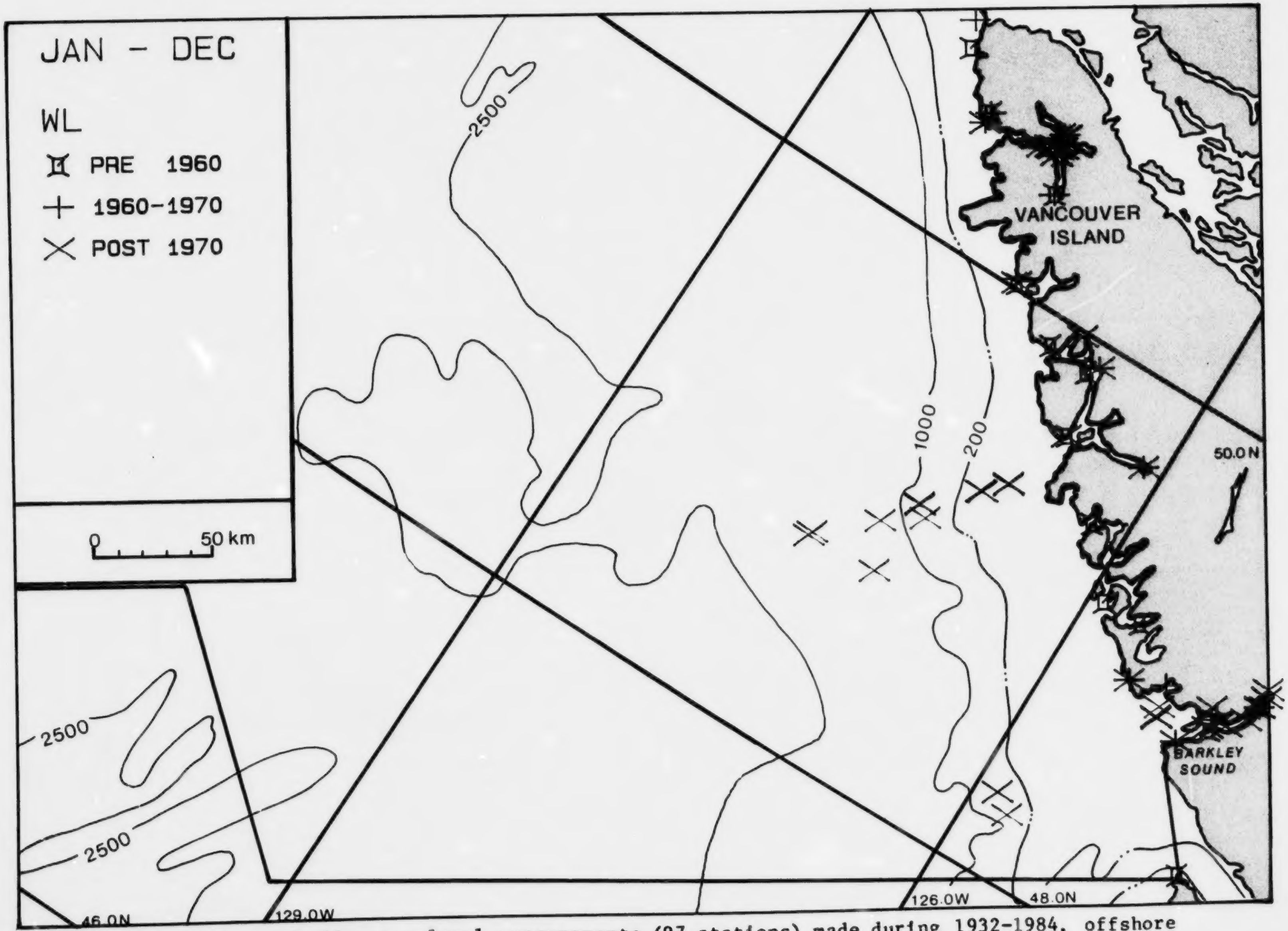
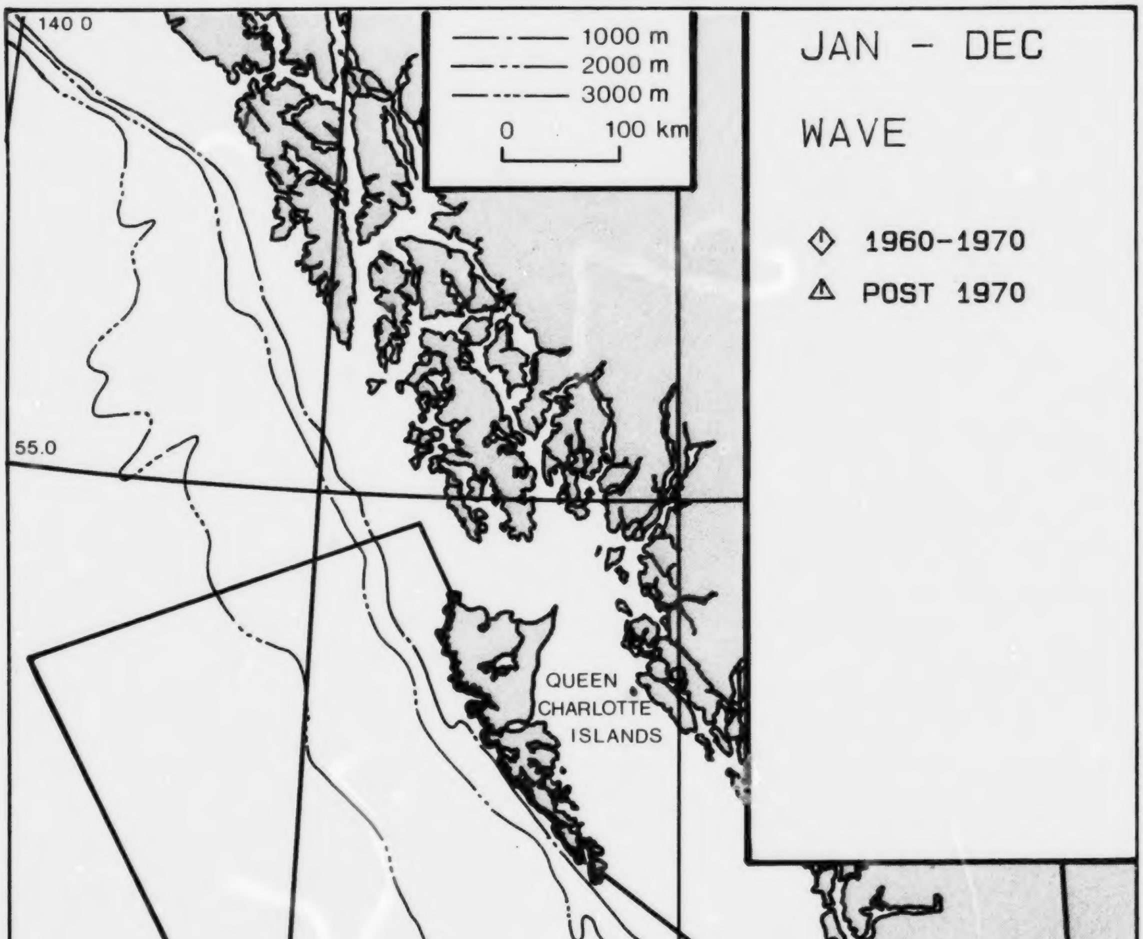

JAN - DEC
WL
PRE 1960
1960-1970
POST 1970
0
50 km
2500
2500
2500
1000
200
VANCOUVER ISLAND
50.0 N
BARKLEY SOUND
46.0N
129.0W
126.0W
48.0N

Figure 6b: Locations of all water-level measurements (97 stations) made during 1932-1984, offshore Vancouver Island.



140 0
1000 m
2000 m
3000 m
0
100 km
JAN - DEC
WAVE
◇ 1960-1970
△ POST 1970
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 7a: Locations of all wave measurements (9 stations) made during 1932-1984, entire area.

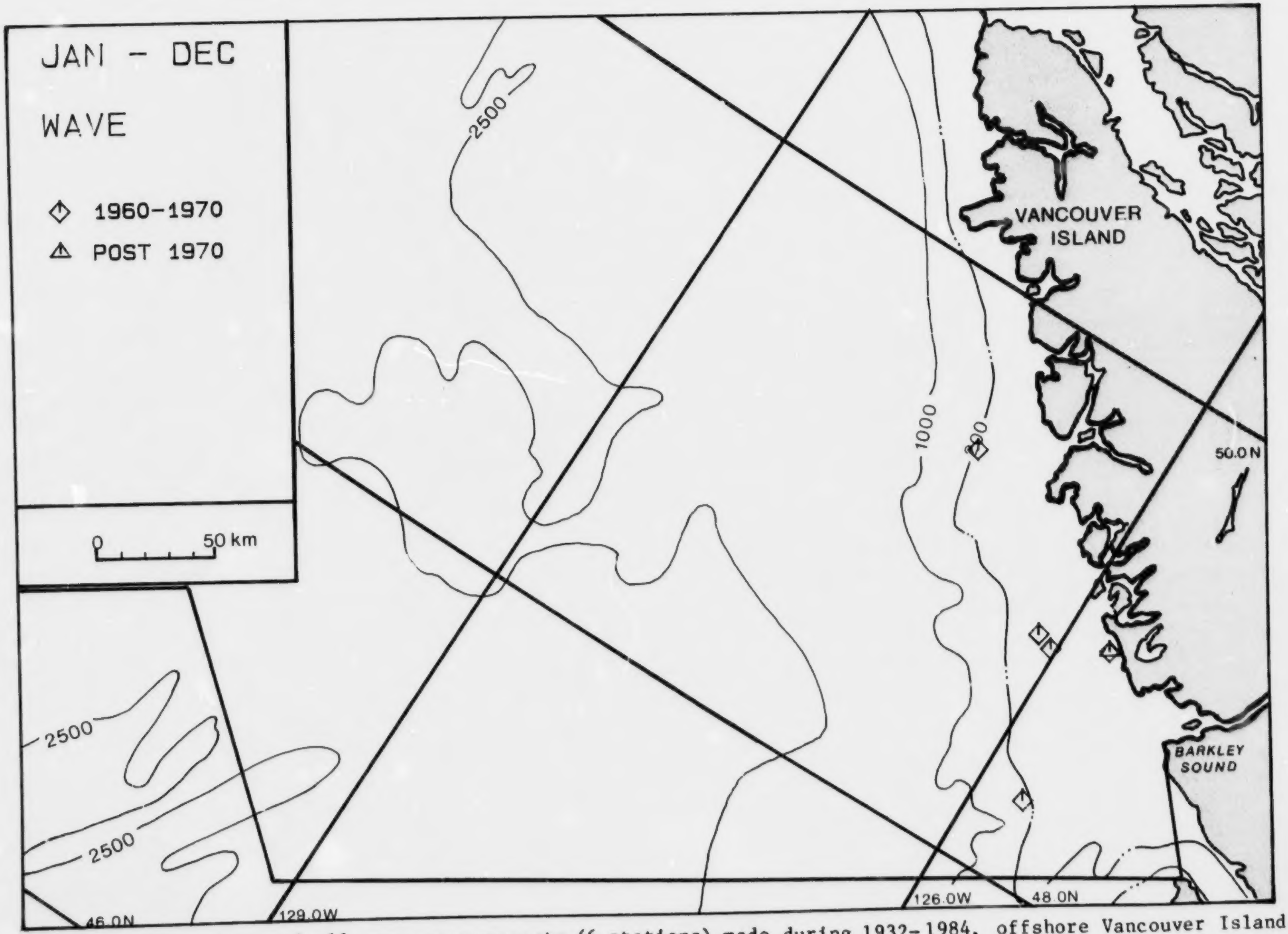

JAN - DEC
WAVE
1960-1970
POST 1970
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
2500
1000
200
2500
2500

Figure 7b: Locations of all wave measurements (6 stations) made during 1932-1984, offshore Vancouver Island.

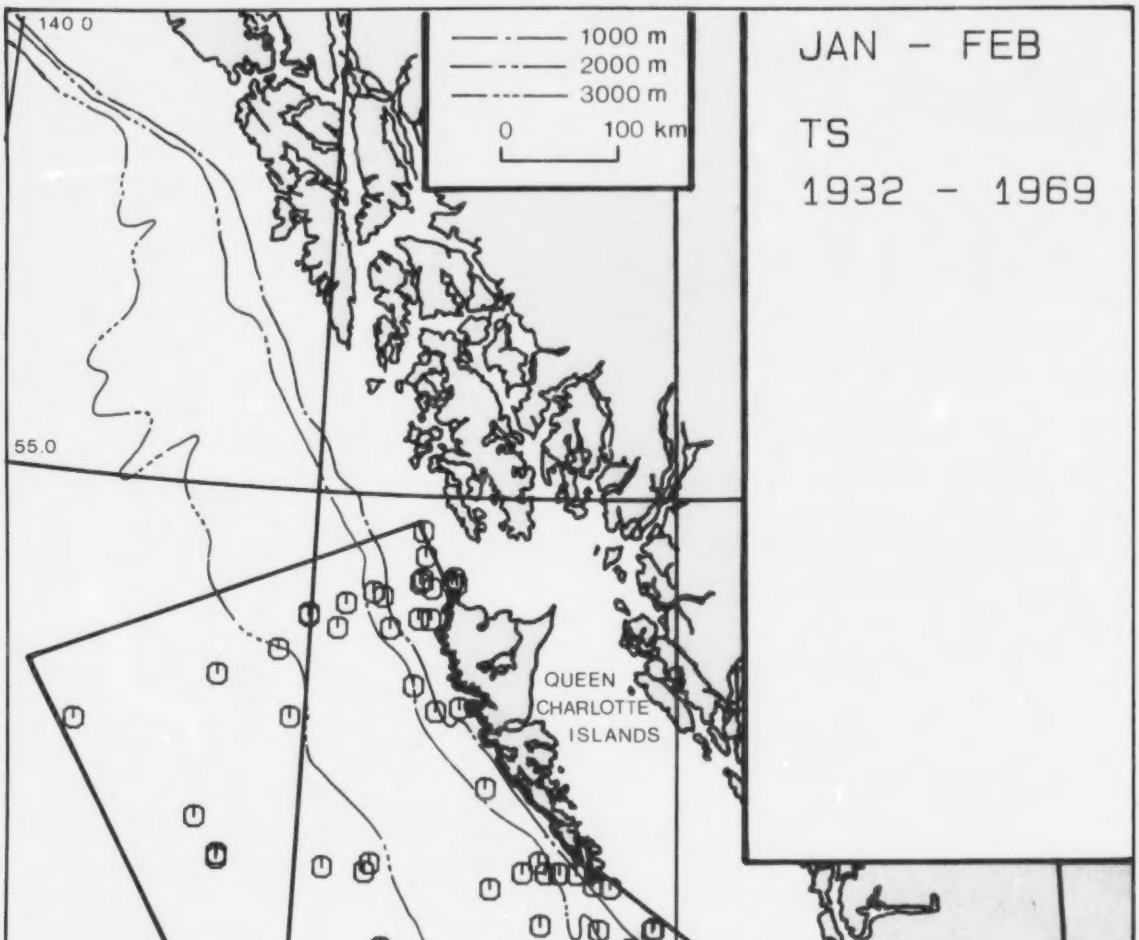

1000 m
2000 m
3000 m
0
100 km
JAN - FEB
TS
1932 - 1969
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

Figure 8a: Locations of all temperature-salinity data (515 stations) collected during 1932-1969, January-February.

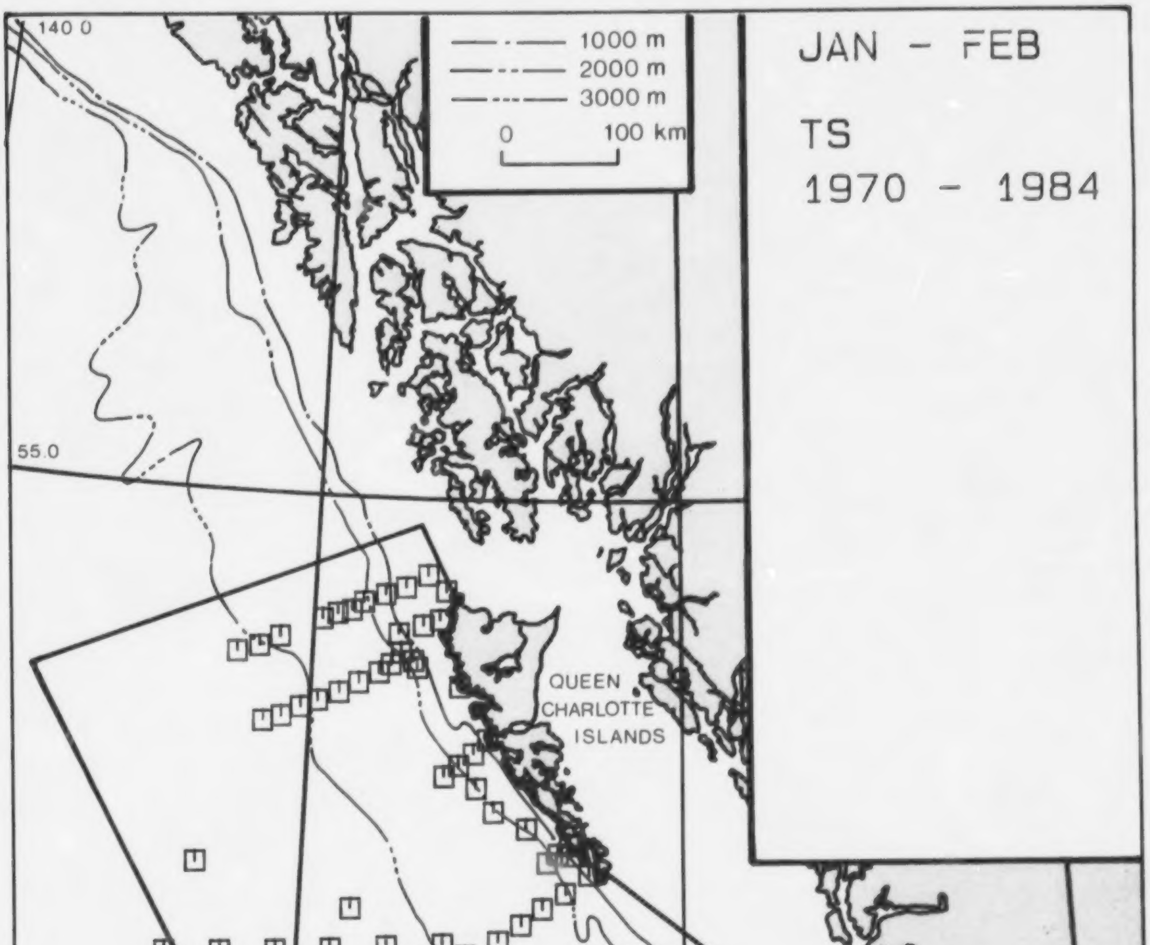

140.0
1000 m
2000 m
3000 m
0
100 km
JAN - FEB
TS
1970 - 1984
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 8b: Locations of all temperature-salinity data (577 stations) collected during 1970-1984, January-February.

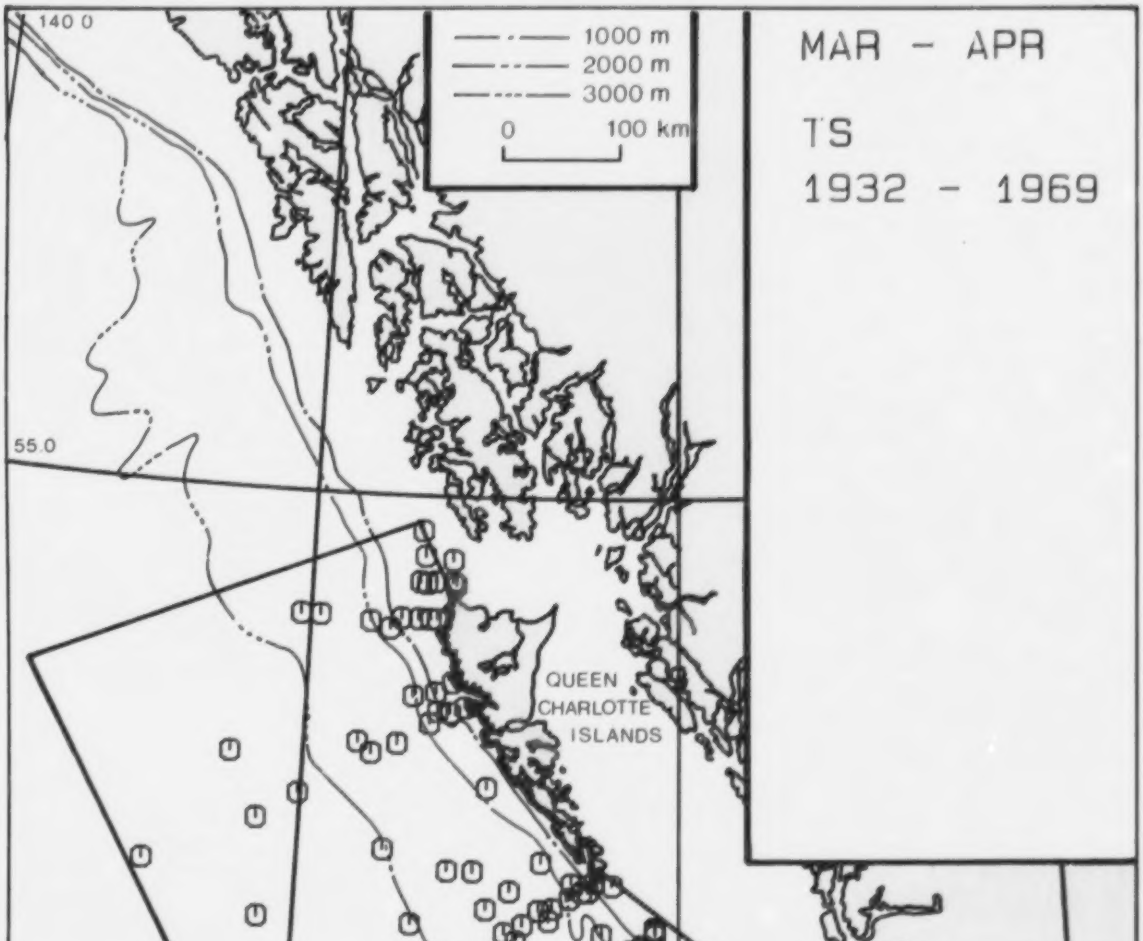

140 0
1000 m
2000 m
3000 m
0
100 km
MAR - APR
TS
1932 - 1969
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 9a: Locations of all temperature-salinity data (848 stations) collected during 1932-1969, March-April.

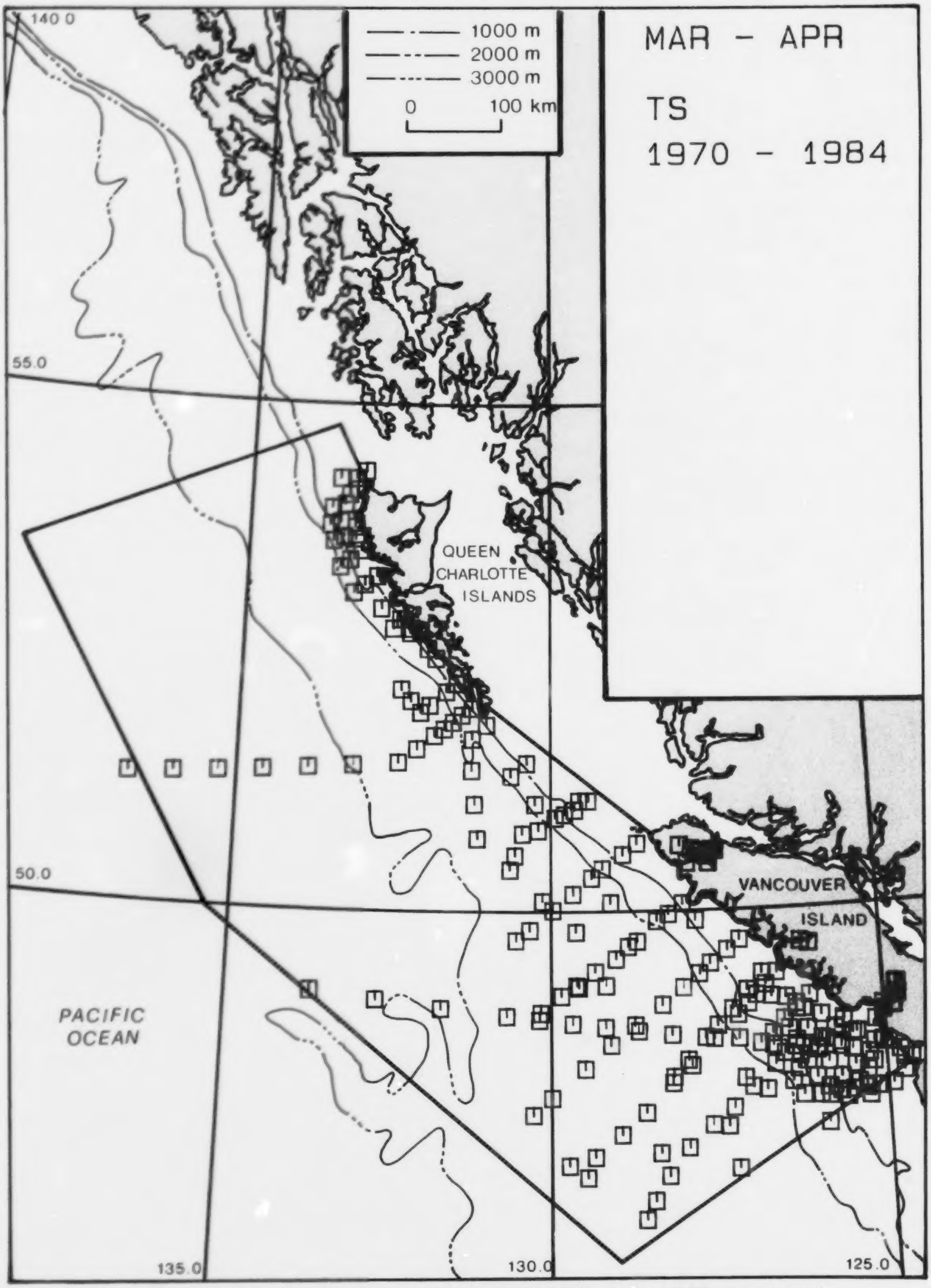

140 0
1000 m
2000 m
3000 m
0
100 km
MAR - APR
TS
1970 - 1984
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 9b: Locations of all temperature-salinity data (628 stations) collected during 1970-1984, March-April.

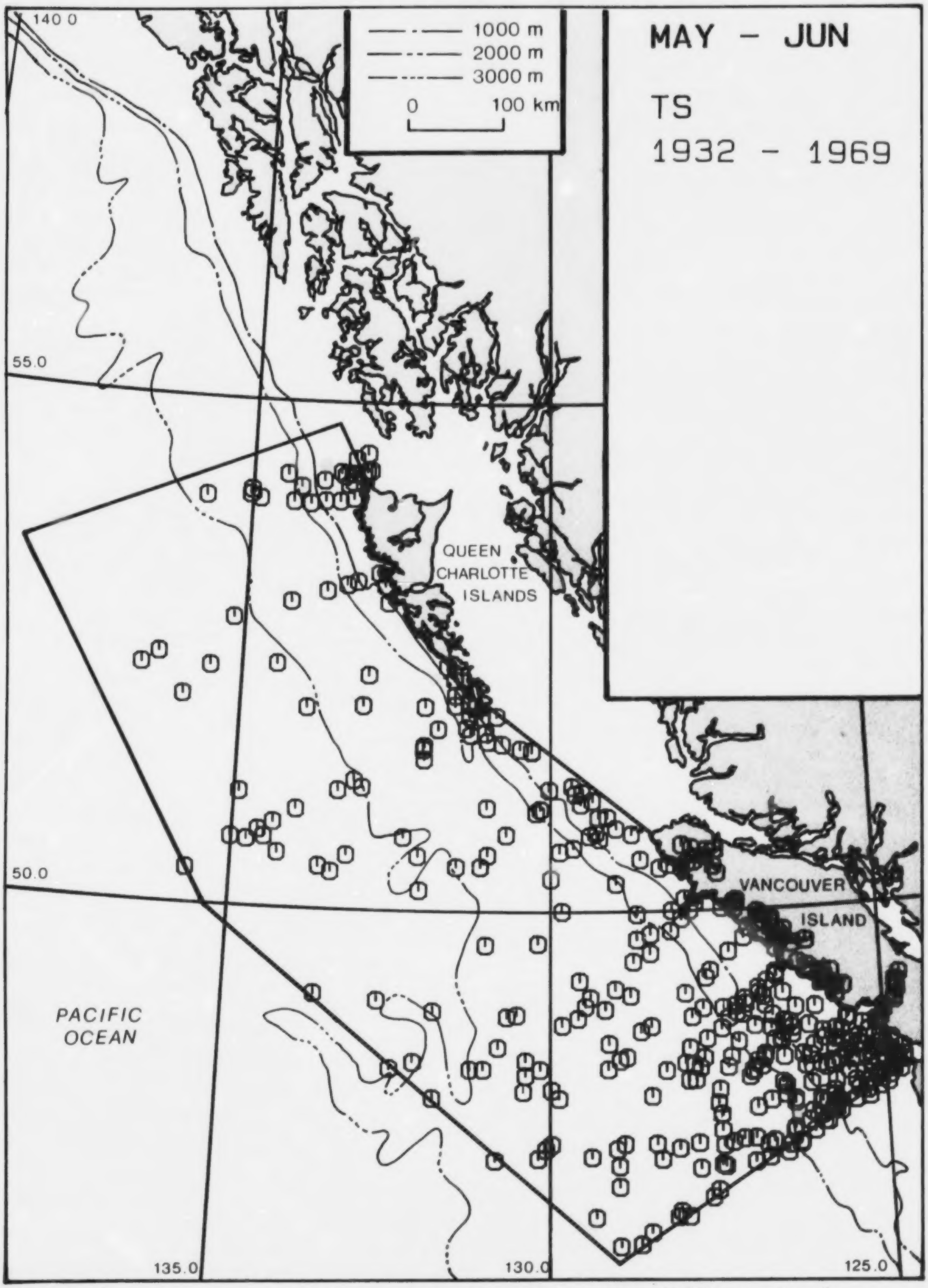

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
MAY - JUN
TS
1932 - 1969
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

Figure 10a: Locations of all temperature-salinity data (1071 stations) collected during 1932-1969, May-June.

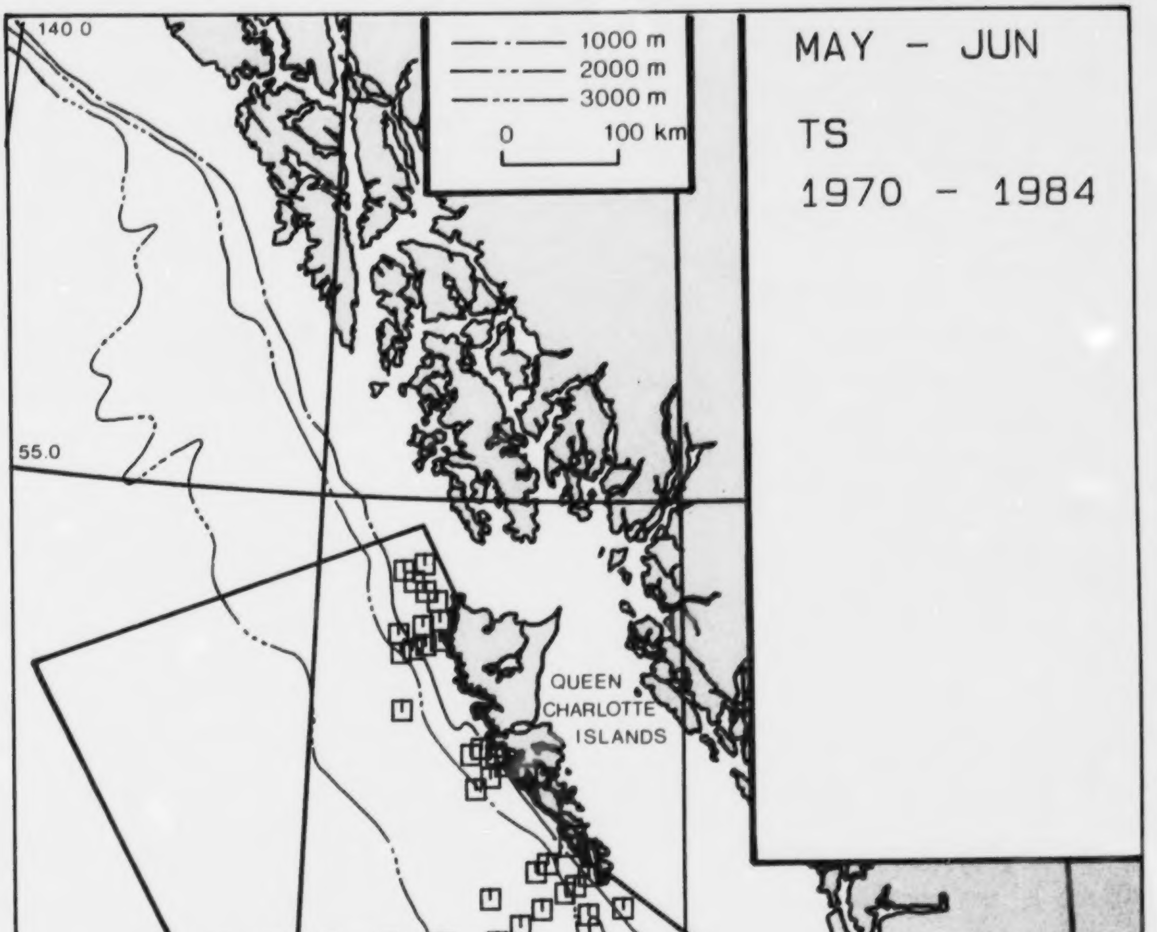

140.0
1000 m
2000 m
3000 m
0
100 km
MAY - JUN
TS
1970 - 1984
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 10b: Locations of all temperature-salinity data (1006 stations) collected during 1970-1984, May-June.

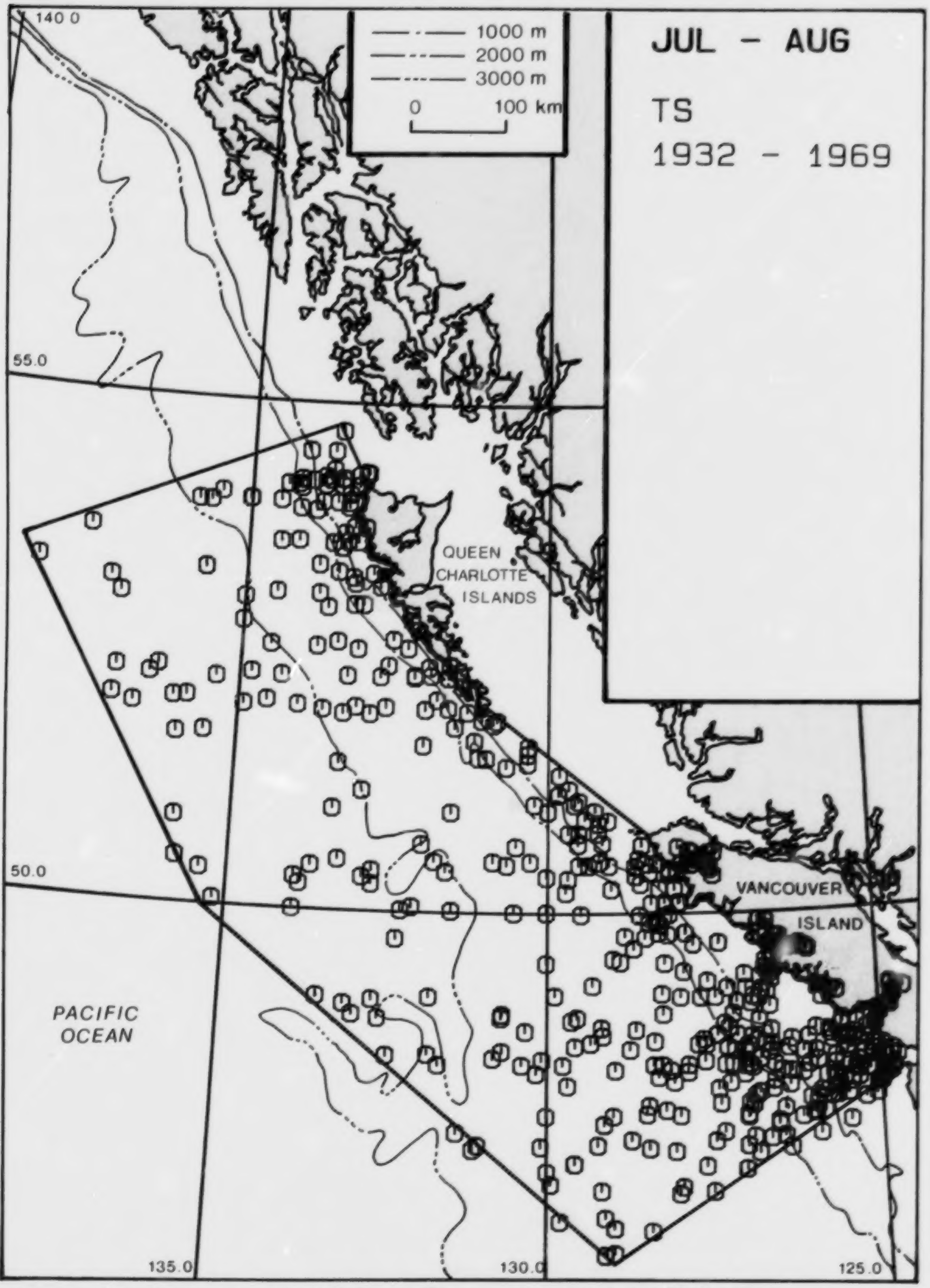

140.0
1000 m
2000 m
3000 m
0
100 km
JUL - AUG
TS
1932 - 1969
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 11a: Locations of all temperature-salinity data (969 stations) collected during 1932-1969, July-August.

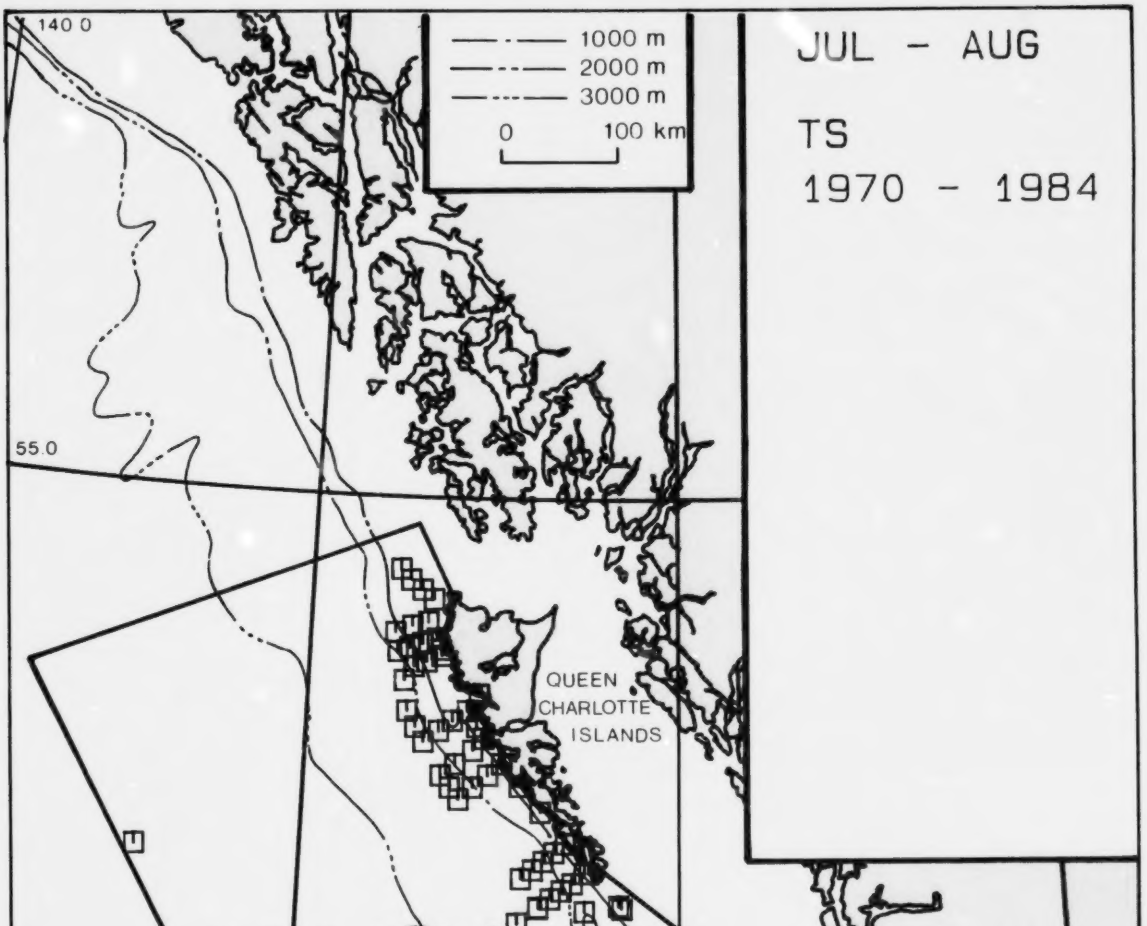

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
JUL - AUG
TS
1970 - 1984
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

Figure 11b: Locations of all temperature-salinity data (1066 stations) collected during 1970-1984, July-August.

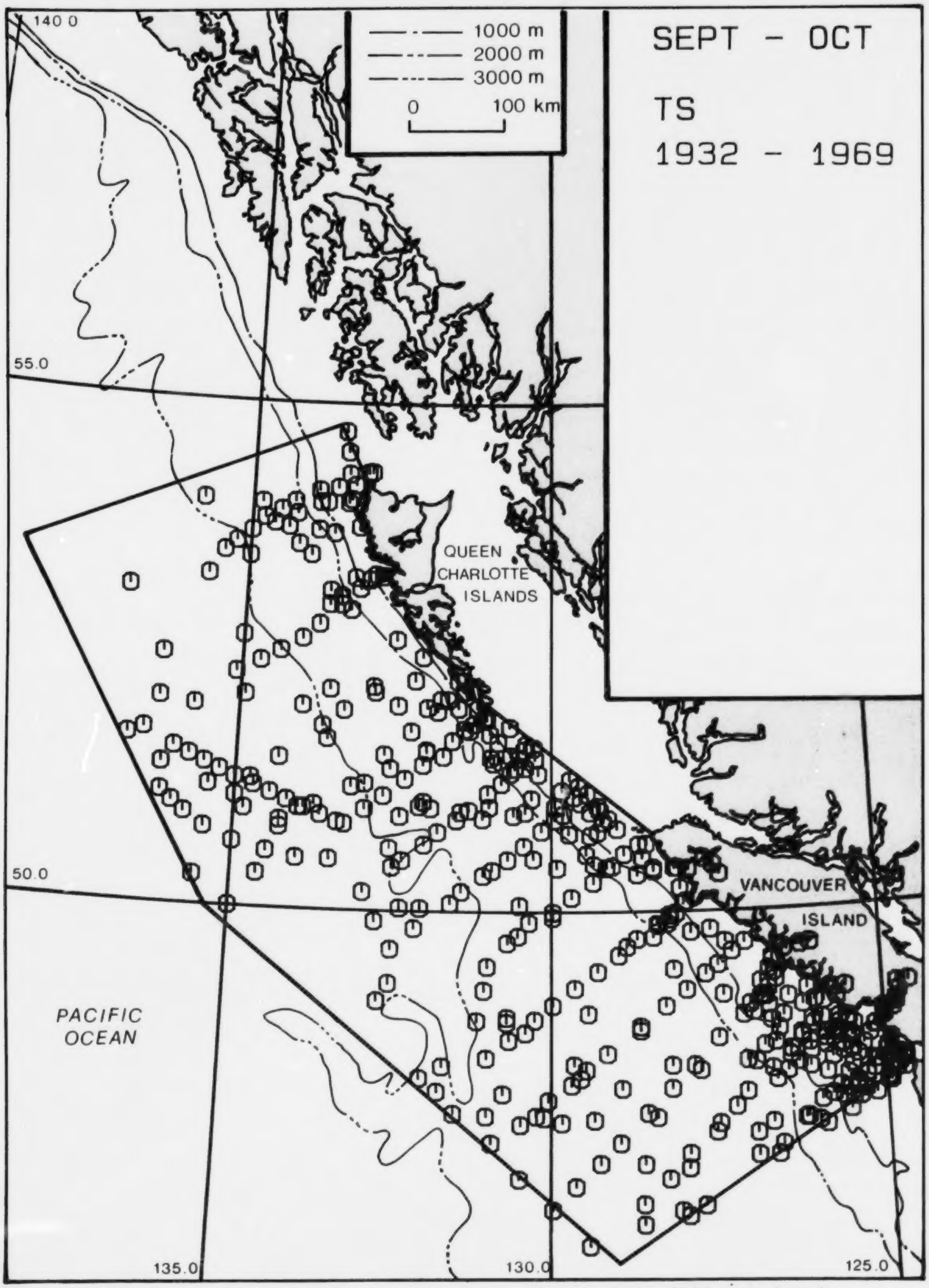

1000 m
2000 m
3000 m
0
100 km
SEPT - OCT
TS
1932 - 1969
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

Figure 12a: Locations of all temperature-salinity data (933 stations) collected during 1932-1969, September-October.

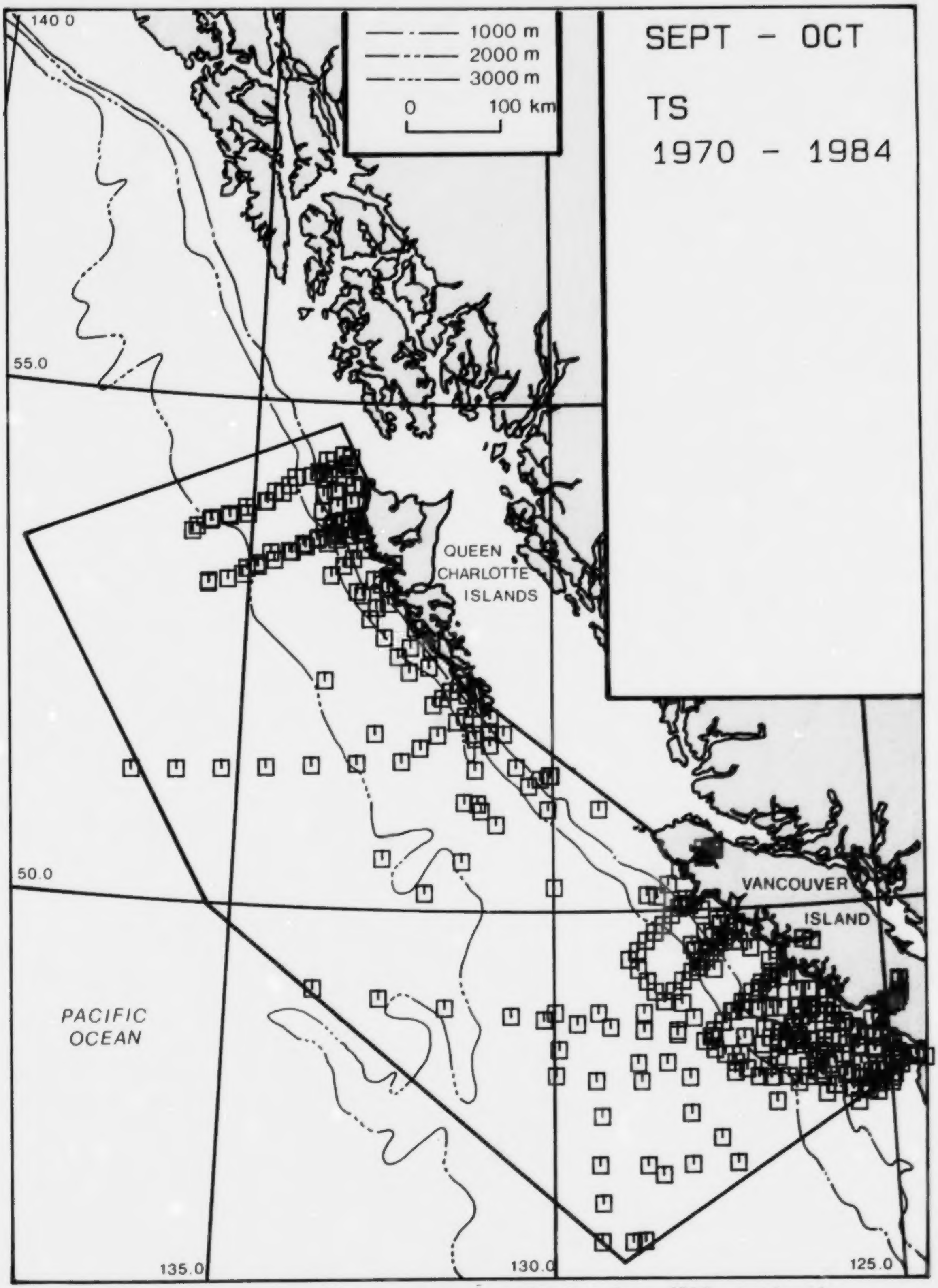

1000 m
2000 m
3000 m
0
100 km
SEPT - OCT
TS
1970 - 1984
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

Figure 12b: Locations of all temperature-salinity data (819 stations) collected during 1970-1984, September-October.

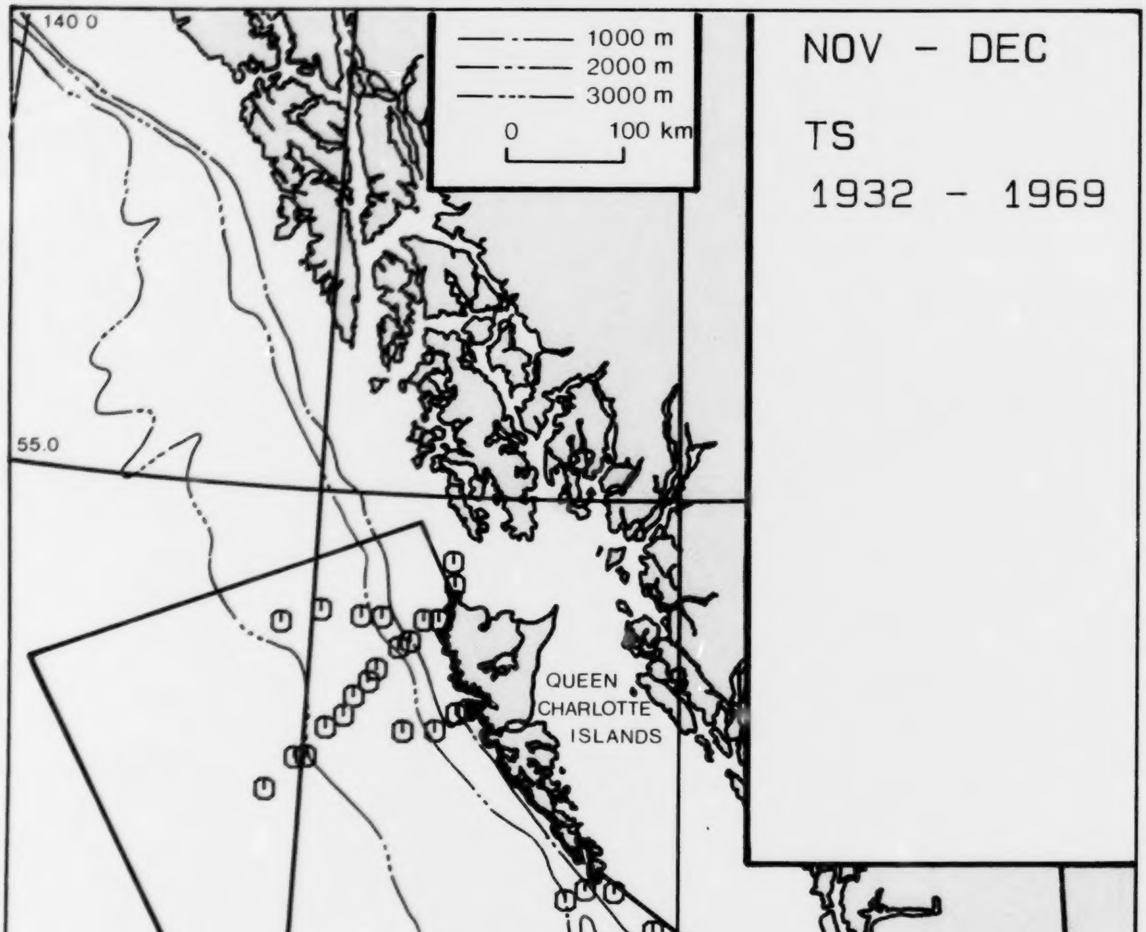

1000 m
2000 m
3000 m
0
100 km
NOV - DEC
TS
1932 - 1969
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

Figure 13a: Locations of all temperature-salinity data (465 stations) collected during 1932-1969, November-December.

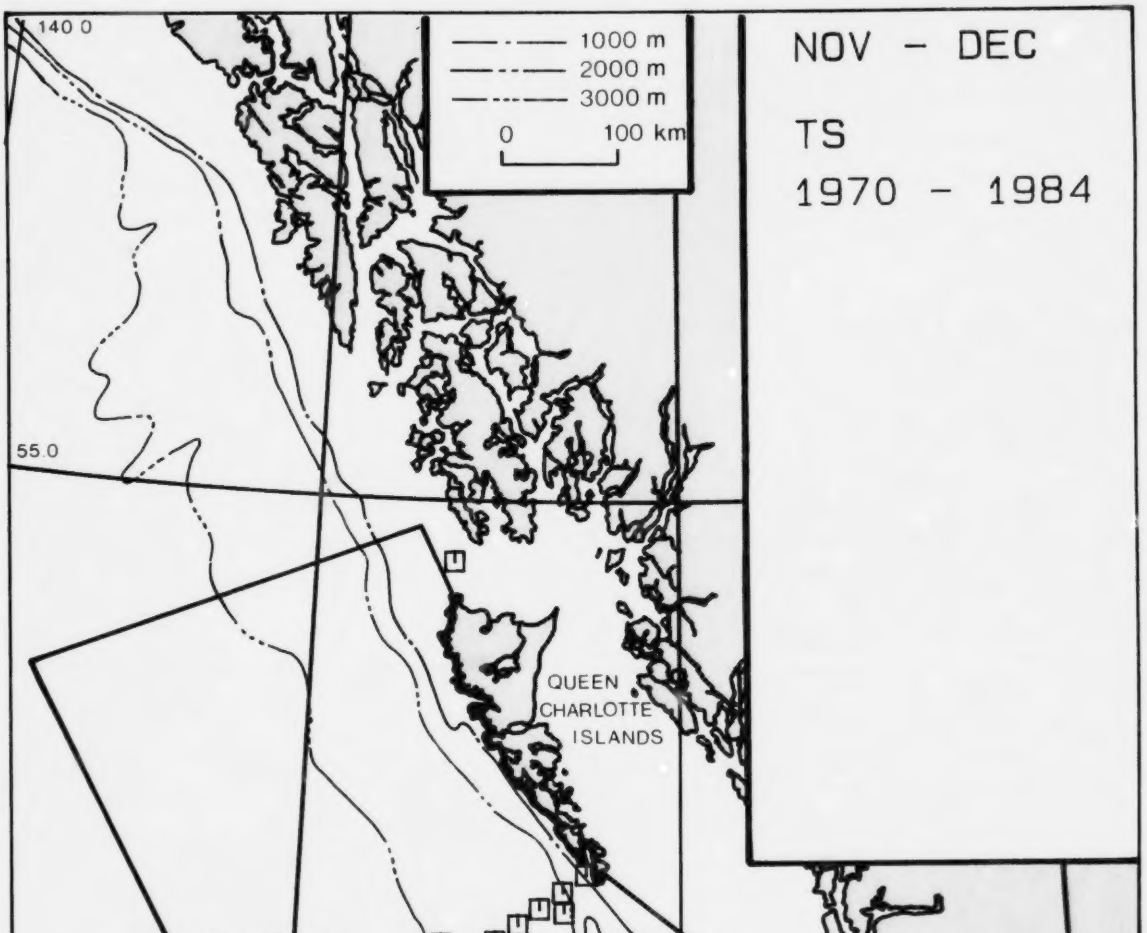

1000 m
2000 m
3000 m
0
100 km
NOV - DEC
TS
1970 - 1984
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

Figure 13b: Locations of all temperature-salinity data (319 stations) collected during 1970-1984, November-December.

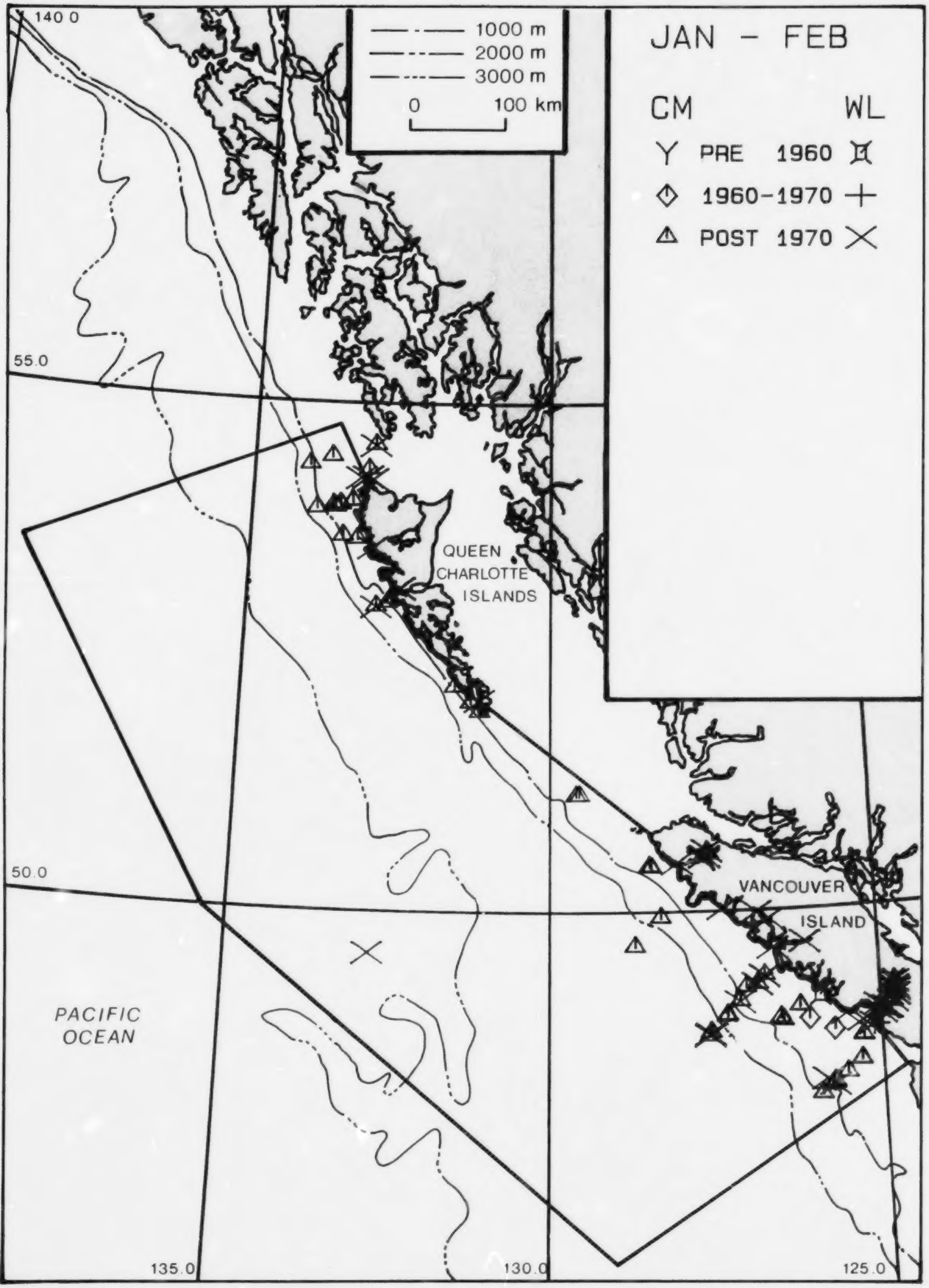

140.0
1000 m
2000 m
3000 m
0
100 km
JAN - FEB
CM
WL
PRE 1960
1960-1970
POST 1970
55.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
50.0
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 14: Locations of all current-meter and water-level stations (210 current-meter, 68 water-level records) in place during the January-February period, 1932-1984.

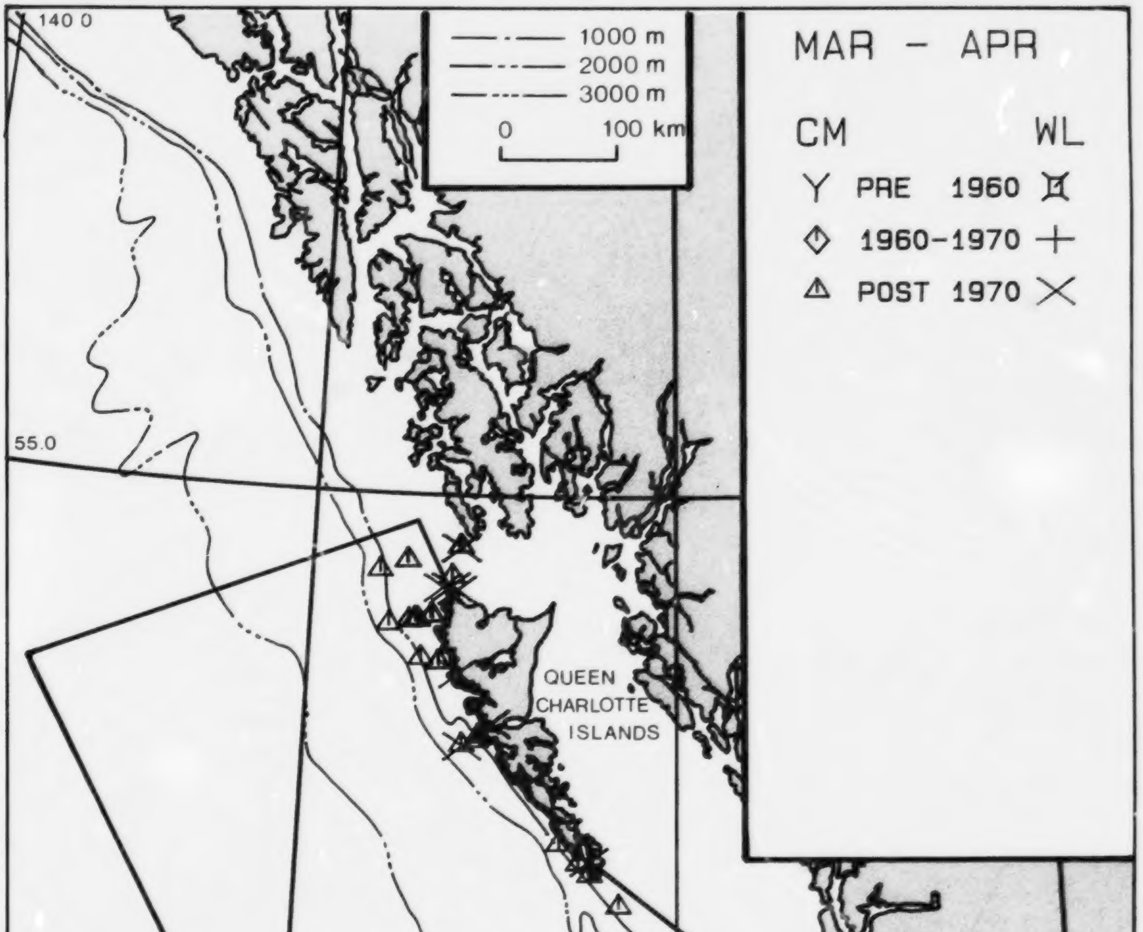

140 0
1000 m
2000 m
3000 m
0
100 km
MAR - APR
CM
WL
Y PRE 1960 ⌘
◇ 1960-1970 +
△ POST 1970 ×
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 15: Locations of all current-meter and water-level stations (211 current-meter, 70 water-level records) in place during the March-April period, 1932-1984.

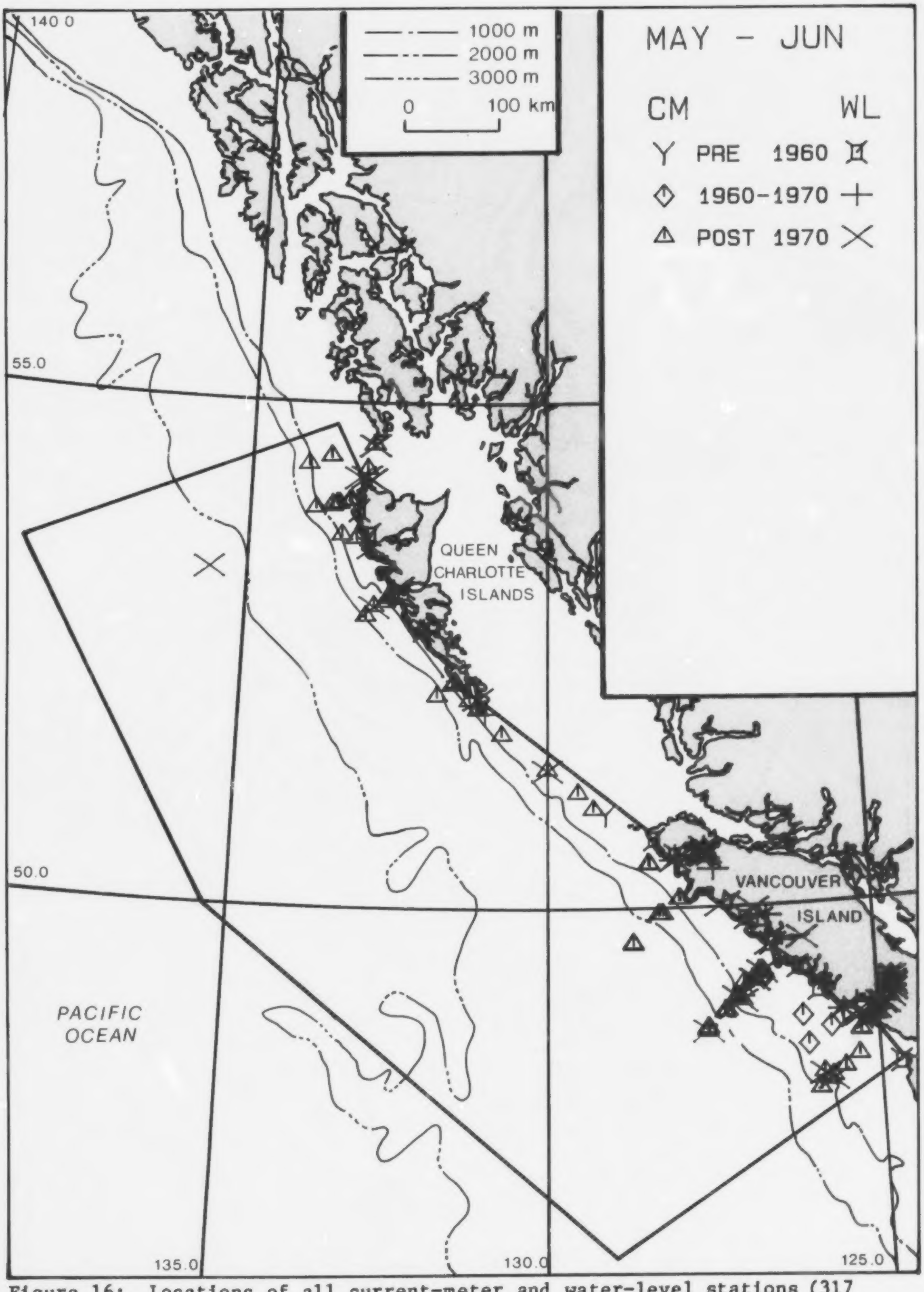

140.0
1000 m
2000 m
3000 m
0
100 km
MAY - JUN
CM
WL
PRE 1960
1960-1970
POST 1970
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 16: Locations of all current-meter and water-level stations (317 current-meter, 106 water-level records) in place during the May-June period, 1932-1984.

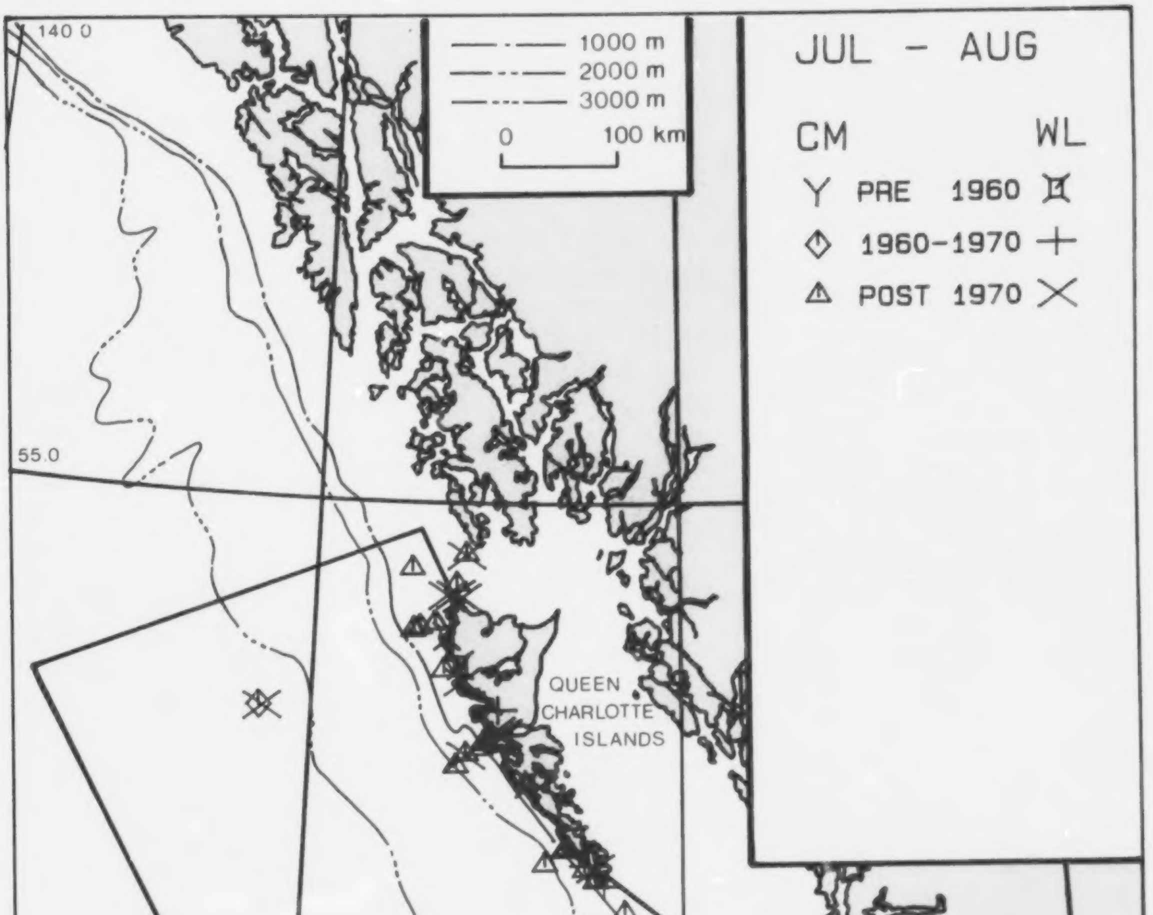

140.0
135.0
130.0
125.0
55.0
50.0
1000 m
2000 m
3000 m
0
100 km
JUL - AUG
CM
WL
PRE 1960
1960-1970
POST 1970
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

Figure 17: Locations of all current-meter and water-level stations (226 current-meter, 85 water-level records) in place during the July-August period, 1932-1984.

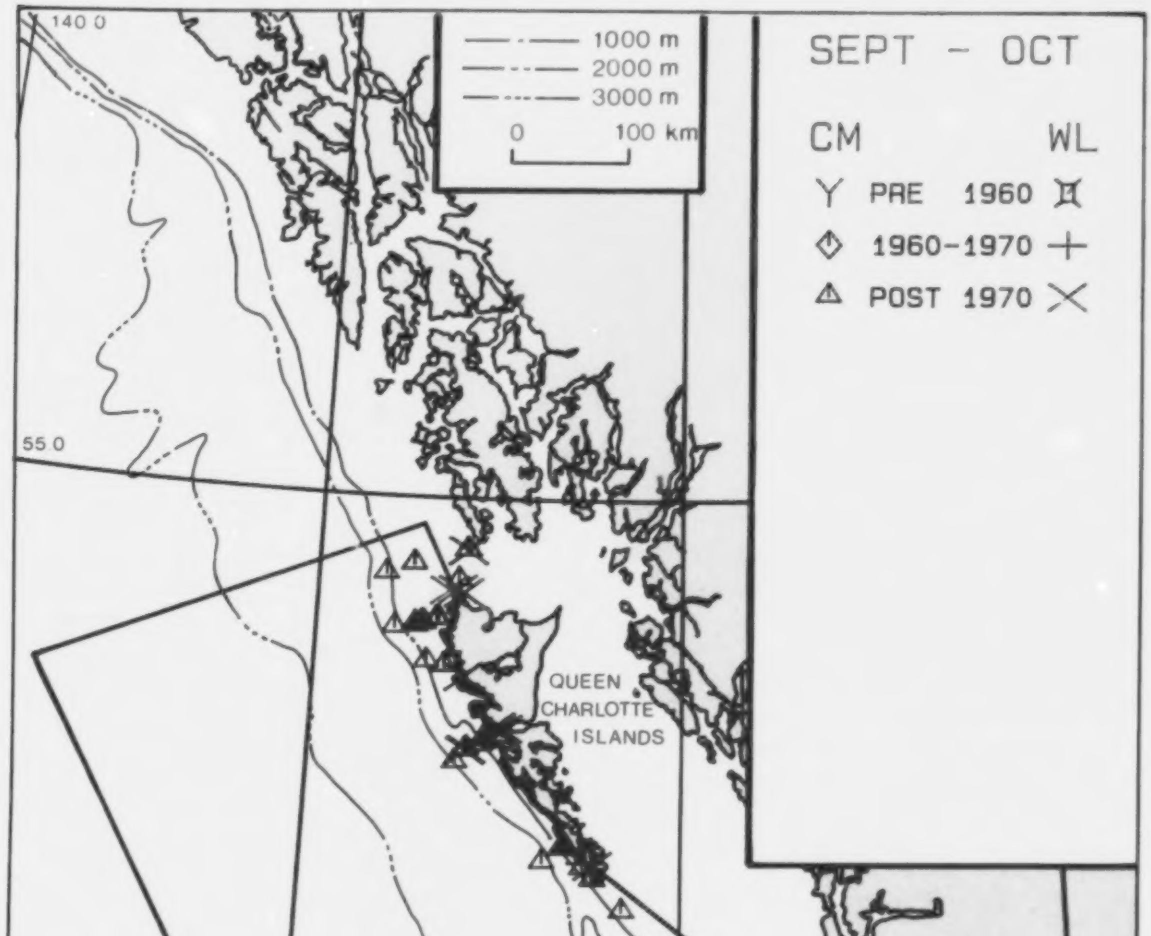

140.0
1000 m
2000 m
3000 m
0
100 km
SEPT - OCT
CM
WL
PRE 1960
1960-1970
POST 1970
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

Figure 18: Locations of all current-meter and water-level stations (280 current-meter, 87 water-level records) in place during the September-October period, 1932-1984.

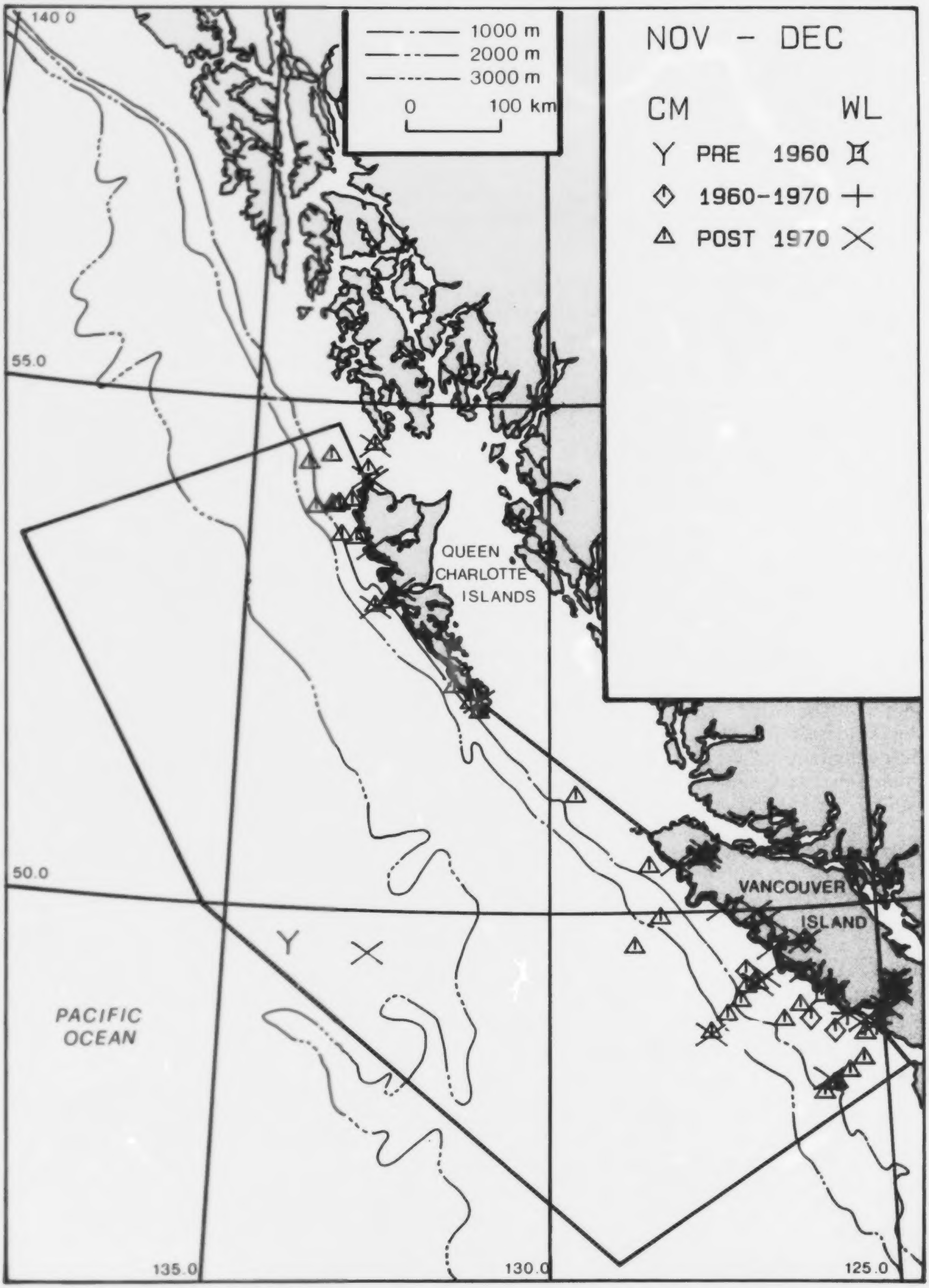

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
NOV - DEC
CM
WL
PRE 1960
1960-1970
POST 1970
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

Figure 19: Locations of all current-meter and water-level stations (155 current-meter, 59 water-level records) in place during the November-December period, 1932-1984.

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8. DATA INVENTORY TABLE

Table 2 presents a summary listing of the data sets included in this inventory. The table lists all the data contained in the inventory sequentially by data set number. Water-property, moored current-meter, surface-drift, water-level and wave data are completely catalogued. BT data are not fully catalogued. However their existence has been noted in Table 2, and their general distribution may be deduced from the pattern of stations for a particular cruise, as they were usually collected at and along the track between stations. Over-the-side current measurements of short duration made with fixed-depth or profiling current meters have not been fully inventoried; however, attempts were made to include all such data covering one tidal cycle or more.

Each column of the table contains the following information (symbols and abbreviations used in each column are explained as well):

Column 1 - Data Set I.D.

- contains the data set identifier number, which is of the form yy-nnnn, where yy are the last two digits of the year in which the data set was collected, and nnnn is the sequential number of the data set for that particular year. (The series of data set numbers applies to the whole set of inventories; gaps may appear in the sequence in any one inventory where data sets exist only in other areas or disciplines. A data set which appears in two or more areas or disciplines will have the same number in every case.) Data sets may be sub-divided by the addition of a letter at the end of the number. Sub-divisions have been used when different cruises have been grouped under one I.D. number, or when different programs were conducted on the same cruise. In the case of water-level stations, where data were collected at the same location intermittently or continuously over more than one year, one I.D. number has been used to represent the entire data set.

Column 2 - Ship or collecting agency

- contains the name of the ship (underlined), platform and/or agency.

Column 3 - Dates of measurements

- gives the dates spanning the period during which measurements were taken in the area covered by the inventory. The year is given by the first two digits of the data set number in column 1, unless the measurement period spans more than one year, in which case it is given explicitly. Question marks signify that the dates could not be confirmed, generally due to poor, or lack of, documentation.

Column 4 - Quantity measured

- lists the physical parameters measured in the data set. A quantity followed by a ? means that reference to such a measurement was made but that no supporting details were available. Measurements identified as "Current" are Eulerian current measurements (made at a fixed location); "Current drift" refers to Lagrangian measurements. "Current profile" refers to spot measurements at certain depths at one location.

Column 5 - Instruments or methods used

- lists the instruments and methods used to make the measurements. The entries appear opposite the names of the quantities they measure. A question mark after the entry denotes an assumption, i.e. that the method used was not explicitly stated and that an assumption was made from standard practice at the time. A question mark alone means that the instrument used is unknown.

Column 6 - Estimate of data precision and accuracy

- lists the estimates of the precision (repeatability) and accuracy for each instrument opposite the entry for that instrument in column 5. For instruments of a digital nature, the precision specified is based on the resolution of the instrument. Where possible, estimates made by the original investigators are used. They are entered as two numbers of the form $\pm n_1$, $\pm n_2$ where n_1 is the precision and n_2 the accuracy. Where investigator's estimates were not available, the following special symbols and entries have been used:

[$\pm n_1$,$\pm n_2$]: standard oceanographic methods were used, which would normally result in these values. The techniques and precision/accuracy used in this context are:

BT	[0.2C°,0.2C°]
Reversing thermometer	[0.02C°,0.03C°]
Salinity - Hydrometer	[0.2°/oo,0.2°/oo]
Salinity - Refractometer	[0.5°/oo,0.5°/oo]
Salinity - Titration	[0.02°/oo,0.04°/oo]
Salinity - Bench salinometer	[0.01°/oo,0.02°/oo] [The make/model of salinometer is often unknown, but may be specified in Appendix 2]
High Quality CTD/STD	[±0.005,0.01C°], [±0.005,0.02°/oo]

$\pm n_1$ @: manufacturer's specifications for that instrument.

$\pm n_1$?: an estimate has been given which is questionable for reasons detailed in Appendix 2.

A blank in the column signifies that no information was available and that no reasonable assumption could be made.

Column 7 - Data rating number

- carries the data rating number assigned, as explained in Section 5.

Column 8 - Area

- lists the areas in which the majority of the measurements in the data set were taken. (The areas are defined in Figure 1.)

Column 9 - Concurrent measurements

- lists known measurements in other disciplines taken as part of the data set. Further measurements may have been taken, but were not discovered while cataloguing the physical-oceanographic data, and therefore cannot be listed.

Column 10 - Source or reference

- lists a primary source or reference for the data sets. Data sets held in the data banks at the Marine Environmental Data Service, Ottawa or at the National Oceanographic Data Center, Washington D.C. are identified by, respectively, the entries MEDS# and NODC#, followed by the data bank's identity number. A MEDS number alone does not necessarily mean that the data are not stored at NODC. If MEDS does not have the data, a NODC number is given if they are stored there.

Table 2: Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
05-0005	CHS	Aug. 1905-present	Water level	Lege, Ott	±?,.01 m	3	Tofino		MEDS WL Stn. #8615
13-0002	CHS	July 17-Aug. 15	Water level	Staff	±.003,.03 m	3	West Coast Queen Charlottes		MEDS WL Stn. #9671
14-0003	CHS	June 19-Aug. 10	Water level	Staff	±.003,.03 m	3	West Coast Queen Charlottes		MEDS WL Stn. #9671
15-0003	CHS	June 10-July 2	Water level	Staff	±.003,.03 m	3	West Coast Queen Charlottes		MEDS WL Stn. #9671
15-0004	U.S. COAST & GEODETIC SURVEY	Apr. 22-Oct. 31	Drift	Log line	?	3	Swiftsure Bank		Marmer (1926)
16-0003	CHS	June 21-July 3	Water level	Lege	±?,.015 m	3	West Coast Queen Charlottes		MEDS WL Stn. #9685
18-0001	U.S. COAST & GEODETIC SURVEY	Dec.6,1918-Dec.31,1920	Drift	Log line	?	3	Swiftsure Bank		Marmer (1926)
20-0001	CHS	May 17-Oct. 9	Water level	?	[±?,.03 m]	3	Quatsino Sound, Neroutsos Inlet		MEDS WL Stn. #8750, 8754
24-0002	CHS	May 5-10	Water level	Lege	±?,.015 m	3	Barkley Sound		MEDS WL Stn. #8555
25-0002	CHS	May 8-July 31	Water level	Lege	±?,.015 m	3	Quatsino Narrows, Esperanza Inlet		MEDS WL Stn. #8685, 8756
27-0005	CHS	June 6-Oct. 31	Water level	?	[±?,.03 m]	3	Nootka Sound		MEDS WL Stn. #8645, 8664
31-0003	CHS	Aug. 13-Nov. 2	Water level	Staff	±.003,.03 m	3	Tofino Inlet		MEDS WL Stn. #8623
31-0008	U.S. COAST & GEODETIC SURVEY	June 1-July 12	Water level	?	?	3	Cape Flattery		National Ocean Service
32-0004	CATALYST, U. Washington	July 18-28	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, NO_2, PO_4, SiO_3, pH, alkalinity	Scripps (1961)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
32-0006	CHS	June 8- Nov. 30	Water level	?	[±?, .03 m]	3	Clayoquot Sound		MEDS WL Stn. #8637
33-0001	CATALYST, U. Washington	July 7-8	Temperature Salinity	Rev. therm. Titration	[±.02, .03C°] [±.02, .04°/oo]	3	Cape Flattery	O_2, PO_4, SiO_3, NO_2, pH	Scripps (1961)
33-0002	W.J. STEWART, Pac. Biol. Stn.	July 25-27	Temperature Salinity	Rev. therm.? Titration?	[±.02, .03C°] [±.02, .04°/oo]	3	Nootka Sound, Muchalat Inlet, Tahsis Inlet	O_2, PO_4, SiO_3, pH, bottom sample	Tully (1937d)
34-0002	AES Meteorological Station at Cape St. James	July 27, 1934-present	Temperature (surface) Salinity (surface)	Thermometer, 1934-39 Thermometer, 1940-present Titration, 1934-58 Salinometer, 1959-70 Hydrometer, 1971-present	?, ±.3C° ?, ±.2C° ?, ±.06°/oo ?, ±.02°/oo ?, ±.3°/oo	3	Southern tip of Queen Charlottes		Hollister & Sandnes (1972)
34-0003	W.J. STEWART, Pac. Biol. Stn.	May 5- June 5	Temperature Salinity	? Titration	±?, .2C° ?	2	West Coast Vancouver Island	pH, SiO_3, PO_4, NO_2, plankton, benthos	NODC# 189950191
34-0004	CHELAN, USCG?	?	Temperature (surface) Salinity (surface)	?	?	2	?	PO_4, SiO_3	Barnes & Thompson (1938)
34-0006	DOT Lightstation at Nootka	Aug. 1934- June 1953	Temperature (surface) Salinity (surface)	Thermometer, 1934-1939 1940-1953 Salinometer, 1934-1953	?, ±.3C° ?, ±.2C° ?, ±.06°/oo	3	West Coast Vancouver Island		Hollister & Sandnes (1972)
34-0007	DOT Lightstation at Amphitrite Point	Aug. 1934- present	Temperature (surface) Salinity (surface)	Thermometer, 1935-1939 1940-present Titration, 1934-1958 Salinometer, 1959-1970 Hydrometer, 1970-present	?, ±.3C° ?, ±.2C° ?, ±.06°/oo ?, ±.02°/oo ?, ±.3°/oo	3	West Coast Vancouver Island		Hollister & Sandnes (1972)

Table 2 (Cont'd): **Summary listing of data sets.**

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
35-0003	CHS	May 18- Sept. 10	Water level	Lege, Scale	$\pm$?,.01 m $\pm$?,.03 m	3	Kyoquot Sound, W. Queen Charlottes		MEDS WL Stn. #8713, 9570, 9605
35-0005	CATALYST, U. Washington	July 26- Aug. 3	Temperature Salinity	Rev. therm. Titration	[$\pm$.02,.03C°] [$\pm$.02,.04°/oo]	3	Offshore Vancouver Island	O_2, PO_4, SiO_3, NO_2, pH, alkalinity	Scripps (1961)
35-0006	OGLALA, (US)	Aug. 4-10	Temperature Salinity	Rev. therm. Titration?	[$\pm$.02,.03C°] [$\pm$.02,.04°/oo]	3	B.C. Offshore		Goodman & Thompson (1940) MEDS #310G03560 NODC #310G50356
35-0007	W.J. STEWART, Pac. Biol. Stn.	May 14- June 26	Temperature Salinity	Rev. therm. Titration?	[$\pm$.02,.03C°] [$\pm$.02,.04°/oo]	3	Offshore Queen Charlottes	O_2, pH, PO_4, SiO_3, NO_2	MEDS #180235607 NODC #189950191
35-0008	DOT Lightstation at Kains Island	Jan. 1935- present	Temperature (surface) Salinity (surface)	Thermometer, 1935-1939 1940-present Titration, 1935-1958 Salinometer, 1959-1970 Hydrometer, 1970-Present	?,$\pm$.3C° ?,$\pm$.2C° ?,$\pm$.06°/oo ?,$\pm$.02°/oo ?,$\pm$.3°/oo	3	West Coast Vancouver Island		Hollister & Sandnes (1972)
36-0003A	ARMENTIERES, Pac. Biol. Stn.	June 8-14	Temperature Salinity	Rev. therm. Titration	[$\pm$.02,.03C°] [$\pm$.02,.04°/oo]	3	Offshore Vancouver Island	pH, weather	POG (1952a) MEDS #180236610 NODC #18AR50282, 189950191
36-0003B	ARMENTIERES, Pac. Biol. Stn.	July 30- Aug. 7	Temperature Salinity	Rev. therm. Titration	[$\pm$.02,.03C°] [$\pm$.02,.04°/oo]	3	Offshore Vancouver Island	pH, weather	POG (1952a) MEDS #180236610 NODC #18AR50282, 189950191
36-0003C	ARMENTIERES, Pac. Biol. Stn.	Sept. 4-5	Temperature Salinity	Rev. therm. Titration	[$\pm$.02,.03C°] [$\pm$.02,.04°/oo]	3	Queen Charlotte Sound, B.C. Offshore	pH, weather	POG (1952a) MEDS #180236610 NODC #18AR50282, 189950191
36-0004	DOT Lightstation at Langara Island	Oct.22,1936- Aug.28,1937	Temperature (surface) Salinity (surface)	Thermometer Titration	$\pm$.2,.5C° $\pm$?,.06°/oo	3	Langara Island (Dixon Entrance)		Hollister & Sandnes (1972)
36-0005	CATALYST, U. Washington	July 27- Aug. 28	Temperature Salinity	Rev. therm. Titration	[$\pm$.02,.03C°] [$\pm$.02,.04°/oo]	3	Offshore Queen Charlottes & Vancouver Island	O_2, PO_4, SiO_3, NO_2, pH, alkalinity	Scripps (1961)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
36-0006	*ARMENTIERES*, Pac. Biol. Stn.	Feb. 14-26	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	pH, weather	POG (1956a) MEDS #180236609 NODC #18AR50293
36-0008	CHS	May 30-June 19	Water level	Scale readings	±?,.015 m	3	Quatsino Sound		MEDS WL Stn. #8759
37-0004	*CATALYST*, Pac. Biol. Stn.	July 28-29	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	2	Dixon Entrance and Offshore	O_2	POG (1956c) MEDS #180237613
37-0010	*CATALYST*, U. Washington	Aug. 25-27	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, PO_4, SiO_3	Scripps (1961)
37-0011	*ARMENTIERES*, Pac. Biol. Stn.	Sept. 8-23	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	POG (1956a) MEDS #180237614
37-0012	*ARMENTIERES*, Pac. Biol. Stn.	Feb. 25-26	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island		POG (1956a) MEDS #180237611 NODC #18AR50293
37-0013	*ARMENTIERES*, Pac. Biol. Stn.	June 16-25	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island		POG (1956a) MEDS #180237612 NODC #189950191
37-0014	*ARMENTIERES*, Pac. Biol. Stn.	Oct. 14-22	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	POG (1956a) MEDS #180237615
38-0002	*AMLAC*, Pac. Biol. Stn.	May 29-30	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Dixon Entrance, B.C. Offshore	O_2, weather	POG (1956c) MEDS #180238620 NODC #18995019
38-0004A	*ARMENTIERES*, Pac. Biol. Stn.	Apr. 26-May 6	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	POG (1956a) MEDS #180238619
38-0004B	*ARMENTIERES*, Pac. Biol. Stn.	June 15-17	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	POG (1956a) MEDS #180238621
38-0004C	*ARMENTIERES*, Pac. Biol. Stn.	July 19-22	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	POG (1956a) MEDS #180238622

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
38-0004D	ARMENTIERES, Pac. Biol. Stn.	Nov. 20-23	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04^{o}/oo]	3	Offshore Vancouver Island	O_2	POG (1956a) MEDS #180238623
38-0005	CATALYST, U. Washington	May 29	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04^{o}/oo]	3	Offshore Vancouver Island	O_2, PO_4, SiO_3	Scripps (1961)
38-0006	CATALYST, U. Washington	Aug. 12-13	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04^{o}/oo]	3	Offshore Vancouver Island	O_2, PO_4, SiO_3, NO_2, pH, alkalinity	Scripps (1961)
38-0007	ARMENTIERES, Pac. Biol. Stn.	Jan. 20-28	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04^{o}/oo]	3	Offshore Vancouver Island	O_2, weather	POG (1956a) MEDS #180238617 NODC #18AR50293
38-0008	ARMENTIERES, Pac. Biol. Stn.	Feb. 16-24	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04^{o}/oo]	3	Offshore Vancouver Island	O_2, weather	POG (1956a) MEDS #180238618
38-0010	CATALYST, U. Washington	Sept. 24	Temperature (surface) Salinity (surface)	? ?	? ?	2	B.C. Offshore		Thompson & Korpi (1942)
38-0011	CHS	June 20-July 16	Water level	Scale readings	±?,.015 m	3	Quatsino Sound, W. Vancouver Island		MEDS WL Stn. #8735, 8786
39-0002	A.P. KNIGHT, Pac. Biol. Stn.	Oct. 29-Nov. 1	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04^{o}/oo]	3	Barkley Sound, Alberni Inlet	O_2, plankton	POG (1957d) MEDS #180239625
40-0004	DOT Lightstation at Langara Island	Mar.2,1940-present	Temperature (surface) Salinity (surface)	Thermometer Titration, 1940-1958 Salinometer, 1959-1969 Hydrometer, Sept.23,1969-present	?,±.2C° ?,±.06^{o}/oo ?,±.02^{o}/oo ?,±.3^{o}/oo	3	Dixon Entrance		Hollister & Sandnes (1972)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
41-0003A	CATALYST, U. Washington	July 21	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island (Cape Flattery)	O_2, PO_4, NO_2	Scripps (1961)
41-0003B	CATALYST, U. Washington	Aug. 9	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island (Cape Flattery)	O_2, PO_4, NO_2	Scripps (1961)
41-0005A	A.P. KNIGHT, Pac. Biol. Stn.	Apr. 23- Sept. 14	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Alberni Inlet	O_2, pH	POG (1957d) MEDS #180241627
41-0005B	A.P. KNIGHT, Pac. Biol. Stn.	May 18- Aug. 21	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Alberni Inlet	O_2, pH	POG (1957d) MEDS #180241628
41-0005C	A.P. KNIGHT, Pac. Biol. Stn.	June 26-27	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Barkley Sound	O_2, pH	POG (1957d) MEDS #180241629
41-0005D	A.P. KNIGHT, Pac. Biol. Stn.	Oct. 13- Nov. 27	Temperature Salinity Water level	Rev. therm. Titration ?	[±.02,.03C°] [±.02,.04°/oo] ?	3	Offshore Vancouver Island	O_2, pH	POG (1957d)
41-0006	CHS	July 25-28	Water level	Scale readings	±?,.015 m	3	Holberg Inlet		MEDS WL Stn. #8765
41-0008	Pac. Biol. Stn.?	May 1941- Sept. 1942	Temperature (surface) Salinity (surface)	Thermometer Titration	?,±.2C° ?,±.06°/oo	3	Port Alberni		Hollister (1960)
42-0004	Pac. Biol. Stn.	Apr. 15-20	Drift	Floats	?	2	Alberni Inlet		Tully (1949)
44-0001	EHKOLI, Pac. Biol. Stn.	May 29	Temperature Salinity	BT, Rev. therm.? Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Coastal (Cape Flattery)		NODC #189950191
47-0003	CHS	Aug. 1947- May 1950	Water level	Lege	±?,.015 m	3	Alberni Inlet		MEDS WL Stn. #8575
47-0004	EHKOLI, POG	Oct. 21-30	Temperature Salinity	BT, Rev. therm.? Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Barkley Sound, Nootka Sound, Alberni Inlet	O_2	POG (on file)
49-0008	SERRANO, US Navy Electronics Laboratory	Mar. 10	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02],.03C° [±.02],.04°/oo	3	B.C. Offshore, N.E. Pacific		Scripps (1957) MEDS #31SR01010 NODC #31SR50101

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
49-0009	CEDARWOOD, POC	Dec. 5	Temperature Salinity	Rev. therm.? Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Barkley Sound		MEDS #180249633 NODC #189950479
50-0006	CEDARWOOD, POC	Sept. 17-19	Temperature Salinity	Rev. therm.? Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2	Scripps (1960) MEDS #180250667 NODC #18CE50424
50-0011	CEDARWOOD, POC	July 29- Aug. 25	Temperature Salinity Current	Rev. therm.? Titration? ?	[±.02,.03C°] [±.02,.04°/oo] ?	3	B.C. Offshore	O_2	Scripps (1960) MEDS #180250655 NODC #18CE50423
50-0012	EHKOLI, POC	Apr. 4-26	Temperature Salinity Current	BT, Rev. therm. Titration Drift pole, drag, free floats	[±.2,.2C°] [±.02,.03C°] [±.02],.05°/oo ?	3	Barkley Sound		Doe (1950, 1952) POG (1955a) MEDS #180250641
50-0013	?, POG	Aug. 1	Temperature Salinity Current	Rev. therm. Titration? ?	[±.02,.03C°] [±.02,.04°/oo]	3	Barkley Sound	Chemical	MEDS #180250650
50-0014	W.J. STEWART, POG	Sept. 12-19, Oct. 2	Temperature Salinity Current Water level	Rev. therm. Titration? ? ?	[±.02,.03C°] [±.02,.04°/oo] ? ?	3	Offshore Vancouver Island	O_2	Scripps (1960) MEDS WL Stn. #8565 MEDS #180250678 NODC #18WS50425
50-0015	?, POG?	June 24	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	2	Alberni Inlet?		MEDS #180250647 Note: this may actually be a Strait of Georgia Station.
51-0012	CEDARWOOD, POG	May 5-19	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore		POG (1956c) MEDS #180251660, 180251685
51-0016	CEDARWOOD, POG	July 18-27	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	Secchi, O_2, wind, sea state, humidity, atmospheric pressure, turbidity	POG (1956c) MEDS #180251661, 180251687 NODC #189950421

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
51-0017	CEDARWOOD, POC	Aug. 1-14	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore		POG (1952b) MEDS #180251662 NODC #18CE50296
51-0018	?, POG?	Oct. 12	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	2	Offshore Vancouver Island	O_2	MEDS #180251663
52-0014	SAULTE ST.MARIE, POG	Mar. 6-17	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2	Doe (1955) MEDS #180252693 NODC #18SM50422
52-0015A	BROWN BEAR, U. Washington	Mar. 14-15	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	Paquette, Collias & Love (1954a) MEDS #31BB04390 NODC #31BB50439
52-0015B	BROWN BEAR, U. Washington	Apr. 29-May 6	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	Paquette, Collias & Love (1954a) MEDS #31BB04260 NODC #31BB50426
52-0015C	BROWN BEAR, U. Washington	July 4-13	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4	Paquette, Collias & Love (1954a) MEDS #31BB04260 NODC #31BB50426
52-0015D	BROWN BEAR, U. Washington	Aug. 19-25	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2	Paquette, Collias & Love (1954a) MEDS #31BB04390
52-0017	?, POG?	Oct. 15	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	2	Offshore Vancouver Island	O_2	MEDS #180252684
52-0018	?, POG?	July 6	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	2	Offshore Vancouver Island	Chemical	MEDS #180252675
53-0015B	CANCOLIM II, UBC	July 16-Aug. 9	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	Secchi, O_2, benthos, plankton	IOUBC (1955) MEDS #181353813 NODC #18CA50521

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
53-0019A	BROWN BEAR, U. Washington	Aug. 1-13	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2	Paquette, Collias & Love (1954b) MEDS #31BB08940 NODC #31BB50894
53-0019B	BROWN BEAR, U. Washing	Sept. 3-13	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	Paquette, Collias & Love (1954b) MEDS #31BB08950 NODC #31BB50895
53-0020A	BROWN BEAR, U. Washington	Apr. 30-May 11	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, PO_4	Paquette, Collias & Love (1954c) MEDS #31BB04400 NODC #31BB50440
53-0020B	BROWN BEAR, U. Washington	June 4-15	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, PO_4	Paquette, Collias & Love (1954c) MEDS #31BB04400 NODC #31BB50440
54-0012A	CEDARWOOD, POC	May 7-13	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	Secchi, wind, O_2, sediment	Barber & Groll (1955) POG (1955c,d) MEDS #180254688 NODC #18CE50515
54-0012B	EHKOLI, POC	July 1-15	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	Secchi, O_2, sediment	Barber & Groll (1955) POG (1955c,d) MEDS #180254689 NODC #18CE50515
54-0012C	CEDARWOOD, POC	Aug. 18-24	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	Secchi, wind, O_2, sediment	Barber & Groll (1955) POG (1955c,d) MEDS #180254690 NODC #18CE50515
54-0012D	CEDARWOOD, POC	Dec.1-2	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	Secchi, O_2, sediment	POG (1955a) MEDS #180254691 NODC #18CE50515
54-0019	EHKOLI, POC	Sept. 8-10	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, PO_4, pH	Waldichuk (1956a,b) Waldichuk, Meikle & Hyslop (1968)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
54-0020	BROWN BEAR, U. Washington	June 23-24	Temperature Salinity Current	BT, Rev. therm. Titration GEK	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo] ?	3	Offshore Vancouver Island	O_2	Scripps (1965a) MEDS #31BB04930
54-0020? 23?	BROWN BEAR, U. Washington	June 16	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	2	Entrance to Strait of Juan de Fuca	Chemical	MEDS #31BB07730 NODC #31BB50773
54-0021	BROWN BEAR, U. Washington	Aug. 5-9	Temperature Salinity Current	Rev. therm. Titration? GEK	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4, plankton tows, bottom cores	Scripps (1965a) MEDS #31BB04930
54-0022	BROWN BEAR, U. Washington	Oct. 16	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, PO_4, bottom cores	Scripps (1965a) MEDS #31BB04930
54-0023	BROWN BEAR, U. Washington	Apr. 29-May 3	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	Scripps (1965a) MEDS #31BB04930 NODC #31BB50493
54-0024	USCG Lightship, POG	June 18/54-June 30/61	Temperature Salinity (surface)	BT Salinometer?	[±.2,.2C°] ?	3	Swiftsure Bank		Hollister (1966)
55-0013	CEDARWOOD, POG	June 17-23 June 1-3	Temperature Salinity Current	BT, Rev. therm. Titration Drag, Ekman	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, weather	POG (1955b) MEDS #180255699 NODC #18CE808
55-0020	JONQUIERE, POG	Feb. 7-14	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore		POG (1955b) MEDS #180255694 NODC #18J0808
55-0021	JONQUIERE, POG	Apr. 14-18	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	2	B.C. Offshore		POG (1955b) MEDS #180255695 NODC #18J0808
55-0023	HORIZON, (US) POG?	Sept. 1-2	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2	MEDS #31H003460 NODC #31H050346
55-0024	ST. THERESE, POG	July 27-Sept. 1	Temperature Salinity Current	BT, Rev. therm. Titration GEK	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo] ?	3	B.C. Offshore, N.E. Pacific	O_2, PO_4, plankton, pH	POG (1956b) MEDS #180255700 NODC #18ST50540

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
55-0026	BROWN BEAR, U. Washington	June 14- July 2	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, PO_4	Love (1957a) MEDS #31BB07550 NODC #31BB50755
55-0027	BROWN BEAR, U. Washington	Sept. 11-13	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4, plankton	Fleming (1956) MEDS #31BB07480 NODC #31BB50748
55-0030	MITKOF, U. Washington/ U.S. Fish. & Wildlife	Oct. 2-4	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore, N.E. Pacific		Favorite & Love (1957) MEDS #31MI07570 NODC #31MI50757
56-0018	NEW GLASGOW, POG	July 31- Sept. 2	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4, NO_2, secchi, SiO_3, pH, drift bottles, zoo-plankton	POG (1957a) MEDS #180256703 NODC #18NG50549
56-0020	BROWN BEAR, U. Washington	May 4- June 9	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4	Love (1957b) MEDS #31BB07960 NODC #31BB50796
56-0021	BROWN BEAR, U. Washington	July 12	Temperature Salinity	Rev. therm. Titration?	[±02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4	Love (1957b) MEDS #31BB07960 NODC #31BB50796
56-0022	BROWN BEAR, U. Washington	July 19- Aug. 30	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4	Love (1957a) MEDS #31BB07550 NODC #31BB50755
56-0023	BROWN BEAR, U. Washington	Dec. 6-8	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4	Love (1960) MEDS #31BB05840 NODC #31BB50584
56-0025	PARAGON, U.S. Fish & Wildlife/ U. Washington	Sept. 24	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore, N.E. Pacific		Love (1959) MEDS #31PG01770 NODC #31PG50177

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
56-0026	REHOBOTH, (US)	Oct. 31- Nov. 9	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	B.C. Offshore		MEDS #31RH00630
57-0007A	OSHAWA, POC	Sept. 20- Oct. 2	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore	Secchi, O_2, PO_4, plankton (species/ abundance)	POG (1958b) MEDS #180257712 NODC #180S50764
57-0007B	OSHAWA, POG	Nov. 25- Dec. 18	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore	Secchi, O_2, plankton (species/ abundance)	POG (1958b) MEDS #180257716 NODC #180S50764
57-0008	OSHAWA, POG	Jan. 23-24, Feb. 20, Mar. 4	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02],.04°/oo	3	B.C. Offshore, N.E. Pacific	O_2, PO_4, SiO_3, NO_2, pH, zooplankton	POG (1957c) Dodimead (1958) MEDS #180257705 NODC #180S50564
57-0009	HORIZON, Scripps, Exp. Mukluk	Aug. 15-16	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, PO_4, SiO_3, pH	Scripps (1965b) MEDS #31H008020,31SB08020 NODC #31SB50802
57-0016	OSHAWA, POG	Apr. 24- May 15	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4, NO_3, plankton (species/ abundance) weather	POG (1958b) MEDS #180257708 NODC #180S50764
57-0021A	BROWN BEAR, U. Washington	Feb. 5-11	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4	Love (1960) MEDS #31BB05840 NODC #31BB50584
57-0021B	BROWN BEAR, U. Washington	May 14-15	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, PO_4	Love (1960) MEDS #31BB05840 NODC #31BB50584
57-0021C	BROWN BEAR, U. Washington	July 11	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Offshore, Strait of Juan de Fuca	O_2	Love (1960) MEDS #31BB05840 NODC #31BB50584
57-0021D	BROWN BEAR, U. Washington	Nov. 5-11	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	O_2, PO_4	Love (1960) MEDS #31BB05840 NODC #31BB50584

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
57-0022	BROWN BEAR, U. Washington?	July 25-26	Temperature	Rev. therm.	[±.02,.03C°]	3	B.C. Offshore, N.E. Pacific	O_2, PO_4, SiO_3	Fleming (1958) Scripps (1965b) MEDS #31BB05760 NODC #31BB50576
			Salinity	Salinometer	±.005,[±.02]°/oo				
57-0023	PARAGON, U.S. Fish & Wildlife	Sept. 10-12	Temperature	BT, Rev. therm.	[±.2,.2C°] [±.02,.03C°]	3	B.C. Offshore	O_2	Favorite & Pederson (1959) MEDS #31PG00940 NODC #31PG50094
			Salinity	?	?				
57-0025	H.M. SMITH, Bur. Comm. Fish (Honolulu) N.E. Pacific Albacore Survey	July 24	Temperature	BT, Rev. therm.	[±.2,.2C°] [±.02,.03C°]	3	B.C. Offshore, N.E. Pacific	O_2, PO_4, plankton	Scripps (1965b)
			Salinity	Titration	[±.02,.04°/oo]				
57-0026	EHKOLI, POG	Aug. 15-19	Temperature	BT, Rev. therm.	[±.2,.2C°] [±.02,.03C°]	3	Quatsino Sound, Neroutsos Inlet, Holberg Inlet, Rupert Inlet	pH, O_2, alkalinity, secchi	Waldichuk, Markert & Meikle (1968)
			Salinity	Salinometer, Titration (low sal. samples)	[±.01,.02°/oo] [±.02],.05°/oo				
			Current	Drag, Ekman-Merz meter	? ?				
57-0027	EHKOLI, POG	Aug. 20-21	Temperature	BT, Rev. therm.	[±.2,.2C°] [±.02,.03C°]	3	Alberni Inlet, Barkley Sound	O_2, pH, secchi, KME	Waldichuk, Meikle & Hyslop (1968)
			Salinity	Salinometer	[±.01,.02°/oo]				
			Current	Drag, Ekman meter	? ?				
57-0028	OSHAWA, POG	July 4-12	Temperature	BT, Rev. therm.	[±.2,.2C°] [±.02,.03C°]	3	B.C. Offshore	Plankton, O_2, secchi, PO_4	POG (1958b) MEDS #180257709 NODC #180S50764
			Salinity	Titration	[±.02,.04°/oo]				
57-0029	OSHAWA, POG	July 23-24, Aug. 20-25	Temperature	BT, Rev. therm.	[±.2,.2C°] [±.02,.03C°]	3	B.C. Offshore	O_2, PO_4, SiO_3, NO_2, secchi, zooplankton, (species/ abundance)	POG (1957b) Dodimead (1958) MEDS #180257711 NODC #180S50718
			Salinity	Salinometer	[±.01,.02°/oo]				
57-0030	REHOBOTH, (US)	July 3-24	Temperature	Rev. therm.?	[±.02,.03C°]	3	B.C. Offshore		MEDS #31RH00690
			Salinity	?	?				

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
57-0033	STE. THERESE, POG	Nov. 12-13	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific		POG (1958b) MEDS #180257715
58-0007	OSHAWA, POG	Mar. 12- Apr. 11	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	Secchi, O_2, fish, plankton, (species/ abundance)	POG (1958a) MEDS #180258719 NODC #180S50749
58-0008	OSHAWA, POG	June 27- July 4	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore & Coastal	Secchi, pH, O_2, SiO_3, NO_3, NO_2, NH_3, P, light attenuation, weather	Strickland (1958) MEDS #180258723
58-0009	WHITETHROAT, POG	Nov. 19- Dec. 5	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	Secchi, O_2, SiO_3, NO_3, plankton, weather	POG (1959a) MEDS #180258730 NODC #18WH50722
58-0014	OSHAWA, POG	July 22- Aug. 16	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	Plankton, O_2, secchi	POG (1958c) MEDS #180258725 NODC #180S50719
58-0016	WHITETHROAT, POG	June 27, Aug. 13-14	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, plankton, drift bottle releases	POG (1958d) MEDS #180258724 NODC #18WH50717
58-0017A	BROWN BEAR, U. Washington	Feb. 20-28	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, PO_4	Love (1960) MEDS #31BB05840 NODC #31BB50584
58-0017B	BROWN BEAR, U. Washington	Apr. 16-17	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2	Love (1960) MEDS #31BB05840 NODC #31BB50584
58-0018	BROWN BEAR, U. Washington	July 2-4, Aug. 18-19	Temperature Salinity	BT, Rev. therm. Titration?	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	pH, alkalinity, O_2, PO_4, SiO_3, secchi	Fleming (1959) Scripps (1965c) MEDS #31BB05580 NODC #31BB50558
58-0019	BROWN BEAR, U. Washington	Sept. 22- Oct. 2	Temperature Salinity	BT, Rev. therm. Titration?	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	O_2, PO_4	Scripps (1965c) MEDS #31BB09830 NODC #31BB50983
58-0021	OSHAWA, POG?	May 17-27	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island		POG (1959f) MEDS #180958721

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
58-0022	REQUISITE, (US)	Jan. 27- Feb. 26	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	B.C. Offshore		MEDS #31RQ00720
58-0023	REQUISITE, (US)	Aug. 3	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	Offshore Vancouver Island		MEDS #31RQ00750
58-0024	TERITU, (US)	Aug. 29	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	B.C. Offshore	Chemical (O_2?)	MEDS #31TU00930 NODC #31PN50093
58-0025	PIONEER, Bureau of Commercial Fisheries (US)	Aug. 29-30	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	B.C. Offshore	Chemical (O_2?)	MEDS #31PN00930 NODC #31PN50093
58-0026	OSHAWA, POG	Sept. 5-7	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore		POG (1959f) MEDS #180958727
58-0027	OSHAWA, WHITETHROAT, POG	Sept. 25-29	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore		POG (1959f) MEDS #180958728
58-0028	VITYAZ, (USSR)	Nov. 13-23	Temperature Salinity Current	Rev. therm.? ? ?	[±.02,.03C°] ?	2	B.C. Offshore	O_2, PO_4, NO_2, SiO_3, pH	Inst. Ocean. (USSR, 1961) MEDS #90VI05890 NODC #90VI50589
59-0011A	OSHAWA, POG	June 11-29	Temperature Salinity Current	BT, Rev. therm. Salinometer Ekman meter, drift pole	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ? ?	3	B.C. Coastal & Offshore	Secchi, O_2, NO_3, plankton, weather	POG (1959c) MEDS #180259735 NODC #180S50900
59-0011B	OSHAWA, POG	Nov. 19- Dec. 3	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	Secchi, O_2, NO_3, plankton	Herlinveaux, Kennedy & Hollister (1960) Herlinveaux (1959b) MEDS #180259740
59-0011C	OSHAWA, POG	Apr. 2-21	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	Secchi, O_2, NO_3, plankton	POG (1959b) Herlinveaux (1959c) MEDS #180259733 NODC #180S50787

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
59-0018	OSHAWA, POG	Jan. 20- Feb. 15	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, zooplankton	POG (1959d) MEDS #180259731 NODC #180S50788, 189951315
59-0019	OSHAWA, POG	Aug. 5- Sept. 1	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, secchi, zooplankton	POG (1959e) MEDS #180259738 NODC #180S51200
59-0023	WHITETHROAT, UBC	May 19-31	Temperature Salinity	BT, Rev. therm. Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Vancouver Island Coastal	O_2, pH, secchi	IOUBC (1959) MEDS #181359873
59-0024	WHITETHROAT, POG	Aug. 4-29	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore	O_2, secchi, zooplankton, drift bottles	POG (1959e) MEDS #180259737
59-0025	A.P. KNIGHT, POG	Aug. 12-15	Temperature Salinity	BT, Rev. therm. Salinometer, Titration (used for samples of very low sal.)	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] [±.02],.05°/oo	3	Nootka Sound- Muchalat Inlet, Alberni Inlet	O_2, pH, alkalinity, KME	Waldichuk, Markert & Meikle (1968) Waldichuk, Meikle & Hyslop (1968)
59-0026	TORDENSKJOLD, Bureau of Commercial Fisheries (US)	Sept. 2-3	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2	Scripps (1965d) MEDS #31T000290
59-0027	PIONEER, Bureau of Commercial Fisheries (US)	Aug. 27-28	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2	Scripps (1965d) MEDS #31PN00290
59-0028	BROWN BEAR, U. Washington	June 19-29	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, PO_4, Chl.a	Scripps (1965d) MEDS #31BB09830 NODC #31BB50983
59-0029	BROWN BEAR, U. Washington	July 16-19	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, PO_4, Chl.a	Scripps (1965d) Stephens (1964) MEDS #31BB09830 NODC #31BB50983
60-0011	OSHAWA, POG	Aug. 8- Sept. 6	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	Secchi, O_2, plankton	Dodimead et al. (1960) MEDS #180260752 NODC #180S50506

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
60-0012	OSHAWA, POG	Oct. 24-26	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	O_2, weather, plankton, secchi	Lane et al. (1960) MEDS #180260754 NODC #180850510
60-0017	CHS	May 2,1960-Aug.19,1961	Water level	Lege, Foxboro	±?, .015 m	3	Barkley Sound, Cape St. James, W. Queen Charlottes		MEDS WL Stn. #8588, 9502, 9650
60-0021	MacMillan Bloedel, POG	May-Dec.	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
60-0022	LAURIER, UBC	Dec. 12	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Tofino Inlet	O_2	IOUBC (1961) MEDS #181360896 NODC #18LR50614
60-0023	BEACON HILL, POG	Jan. 12-Feb. 10	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, secchi, zooplankton	Dodimead, Abbott-Smith & Hollister (1960) MEDS #180260742 NODC #189951321, 18BH50505
60-0024	WHITETHROAT, UBC	Sept. 19-29	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Tofino Inlet	pH, O_2, PO_4, alkalinity, SiO_3, SiO_4	IOUBC (1961) MEDS #181360893
60-0025	WHITETHROAT, UBC	June 5-11	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Tofino Inlet	pH, secchi, PO_4, O_2, SiO_3, NO_2	IOUBC (1961) MEDS #181360889 NODC #18WH50614
60-0026	OSHAWA, POG	June 7-16	Temperature Salinity Current	BT, Rev. therm. Salinometer Ekman meter, Drift pole	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ? ?	3	Offshore Vancouver Island	O_2, secchi, plankton	Lane, Meikle & Hollister (1960b) MEDS #180260748 NODC #180S50530
60-0027	OSHAWA, POG	Nov. 27-Dec. 9	Temperature Salinity Current	BT, Rev. therm. Salinometer Drift pole, Ekman meter	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ? ?	3	Offshore Vancouver Island	O_2, secchi, plankton, bottom samples	Lane, Harling & Hollister (1961) MEDS #180260756
60-0028	BROWN BEAR, U. Washington	Mar. 23	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	B.C. Offshore	Chemical	MEDS #31BB10510 NODC #31BB51051

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
60-0029	BROWN BEAR, U. Washington	June 11-20	Temperature Salinity	Rev. therm. Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	Chemical	MEDS #31BB10520 NODC #31BB51052
60-0033	KAT, UBC	Mar. 14-16	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Tofino Inlet		IOUBC (1961) MEDS #181360885 NODC #18KA50614
60-0034	WHITETHROAT, POG	May 4-14	Temperature Salinity Current	BT, Rev. therm. Salinometer Ekman meter, Drift pole	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ? ?	3	Offshore Vancouver Island	O_2, secchi, plankton	Lane, Meikle & Hollister (1960a) MEDS #180260744 NODC #18WH50509
60-0035	KEY WEST II, POG	May 22-July 11	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore		MEDS #180260746 NODC #18KY50606
60-0037	WHITETHROAT, POG	Aug. 8,9	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore	Secchi, O_2, plankton	Dodimead et al. (1960) MEDS #180260750 NODC #18WH50541
60-0039	OSHAWA, POG	Oct. 4-10	Temperature Salinity Current	BT, Rev. therm. Salinometer Ekman meter, Drift pole	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ? ?	3	Offshore Vancouver Island	O_2, secchi, plankton	Lane et al. (1960) MEDS #180260753 NODC #18OS50507
61-0016	OSHAWA, POG	Apr. 5-12	Temperature Salinity Current	BT, Rev. therm. Salinometer Ekman meter, Drift pole	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ? ?	3	Offshore Vancouver Island	O_2, turbidity, weather, plankton	Lane et al. (1961a) MEDS #180261762 NODC #18OS50621
61-0017A	WHITETHROAT, POG	July 24-Aug. 8	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	Secchi, O_2, plankton	Crean et al. (1962a) MEDS #180261769 NODC #18WH50533
61-0017B	OSHAWA, POG	Sept. 21-Oct. 17	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore & Coastal	Secchi, O_2	Crean et al. (1962a) MEDS #180261774 NODC #18OS50592
61-0017C	WHITETHROAT, POG	Oct. 24-Nov. 9	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	Secchi, O_2	Crean et al. (1962a) MEDS #180261775 NODC #18WH50514

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
61-0018	OSHAWA, POG	Feb. 11-15	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	Secchi, O_2, plankton	Lane et al. (1961b) MEDS #180261759 NODC #180S50532
61-0019	OSHAWA, POG	May 16-June 16	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, secchi, plankton	Dodimead et al. (1961a) MEDS #180261765 NODC #180S50512
61-0020	OSHAWA, WHITETHROAT, STRANGER, HUGH M. SMITH, Operation Leapfrog; POG/ Scripps/ U.S. Navy	Sept. 6-10	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	O_2	Herlinveaux (1961) MEDS #180961771 NODC #189950563
61-0021	OSHAWA, POG	July 4,9	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore & Coastal	O_2, SiO_3, NO_3, plankton	Antia et al. (1962) Stephens (1964) NODC #180S51058
61-0023	CHS	May 27-June 2	Water level	Foxboro	±?,.015 m	3	Vancouver Island Coastal		MEDS WL Stn. #8658
61-0028	ST. ANTHONY, POG	May 28-July 1	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, secchi, plankton	Dodmead et al. (1961a) MEDS #180261766 NODC #18SA50520
61-0029	ATOLLA, UBC	Aug. 15-16	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Vancouver Island Coastal (Tofino Inlet)	O_2	IOUBC (1962) MEDS #181361914 NODC #18AL50090
61-0030	ATOLLA, UBC	Aug. 30-31	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Vancouver Island Coastal (Tofino Inlet)	O_2	IOUBC (1962) MEDS #181361915 NODC #18AL50090
61-0031	WHITETHROAT, UBC	Feb. 14-17	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Vancouver Island Coastal (Tofino Inlet)	O_2, PO_4, NO_3, SiO_3	IOUBC (1962) MEDS #181361902 NODC #18WH50090
61-0032	WHITETHROAT, UBC	Apr. 6-7	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Vancouver Island Coastal (Tofino Inlet)	O_2	IOUBC (1962) MEDS #181361906 NODC #18WH50090

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
61-0033	OSHAWA, POG	Mar. 20-28	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	Zooplankton, O_2, secchi	Lane et al. (1961a) MEDS #180261761 NODC #180S50621
61-0034	WHITETHROAT, POG	Oct. 3-11	Temperature Salinity Current	BT, Rev. therm. Salinometer Titration (low salinity samples) CBI Drag, Ekman-Merz meter	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] [±.02],.05°/oo ? ?	3	Vancouver Island Coastal (Nootka Sound-Muchalat Inlet, Quatsino Sound, Alberni Inlet)	O_2, pH, alkalinity, secchi	Waldichuk, Markert & Meikle (1968) Waldichuk, Meikle & Hyslop (1968)
61-0035	MacMillan Bloedel, POG	Jan. 19-Dec. 7	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
61-0036A	BROWN BEAR, U. Washington	July 7-8	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2, Chl.a, PO_4, secchi	Love (1964a) MEDS #31BB07100 NODC #31BB50710
61-0036B	BROWN BEAR, U. Washington	July 29-30	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2, Chl.a, secchi	Love (1964a) MEDS #31BB07100 NODC #31BB50710
61-0037A	BROWN BEAR, U. Washington	Sept. 15-16	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	B.C. Offshore	NO_3, SiO_3, secchi, O_2, Chl.a, PO_4	Love (1964b) MEDS #31BB07100 NODC #31BB50710
61-0037B	BROWN BEAR, U. Washington	Nov. 29-Dec. 1	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	B.C. Offshore	NO_3, SiO_3, secchi, O_2, Chl.a, PO_4	Love (1964b) MEDS #31BB07100 NODC #31BB50710
61-0038	BROWN BEAR, U. Washington	Jan. 11-27	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, SiO_3, NO_3, Chl.a	Love (1961) Stephens (1964) MEDS #31BB01690 NODC #31BB50169
61-0039	BROWN BEAR, U. Washington	Mar. 8-Apr. 7	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, SiO_3, NO_3, Chl.a	Love (1961) Stephens (1964) MEDS #31BB01690 NODC #31BB50169
61-0040	BROWN BEAR, U. Washington	May 9-June 11	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, SiO_3, NO_3, PO_4, Chl.a	Love (1961) Stephens (1964) MEDS #31BB01690 NODC #31BB50169

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
61-0042	OSHAWA, POG	Feb. 21- Mar. 1	Temperature Salinity Current	BT, Rev. therm. Salinometer Ekman meter, Drift pole	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ? ?	3	B.C. Offshore	Plankton, O_2	Lane et al. (1961b) MEDS #180261760
61-0045	J. N. COBB, Bureau of Commercial Fisheries Lab., San Diego	July 12	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2	U.S. Fish. & Wildl.(1963) MEDS #31JC19540 NODC #31JC51954
61-0046	HORIZON (U.S.)	Sept. 8-11	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2	MEDS #31HO00820 NODC #31HO50082
61-0050	WHITETHROAT, Submarine GRILSE, POG, Pacific Naval Lab.	Nov. 22-25	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	O_2	MEDS #180961776 NODC #18WH50609
62-0015A	OSHAWA, POG	Jan. 16-26	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	Secchi, O_2	Crean, Tripp & Hollister (1962b) MEDS #180262778 NODC #180S50531
62-0015B	OSHAWA, POG	Jan. 29- Feb. 5	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	B.C. Coastal & Offshore	Secchi, O_2	Crean, Tripp & Hollister (1962b) MEDS #180262778 NODC #180S50531
62-0016	OSHAWA, POG	May 23- June 23	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Dixon Entrance, B.C. Offshore, N.E. Pacific	Secchi, O_2, plankton	Dodimead et al. (1962) MEDS #180262785 NODC #180S50516, 189951340
62-0018	OSHAWA, POG	Sept. 19- Oct. 1	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Dixon Entrance, B.C. Offshore	Meteorological observations including wind velocity, O_2	Crean et al. (1963) Crean (1967) MEDS #180262790 NODC #180S50544
62-0025	OSHAWA, POG	Mar. 12- Apr. 5	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Dixon Entrance, B.C. Offshore	Secchi, O_2	Crean et al. (1962c) MEDS #180262781 NODC #180S50500

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
62-0027	CHS	May 7- Sept. 30	Water level	Foxboro	±?, .015 m	3	W. Vancouver Island & Queen Charlottes		MEDS WL Stn. #8790, 9570
62-0030A	OSHAWA, POG	Oct. 30- Nov. 1	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2, .2C°] [±.02, .03C°] [±.01, .02°/oo]	3	Alberni Inlet	O_2, pH, secchi, alkalinity	Waldichuk, Meikle & Hyslop (1968)
62-0030B	OSHAWA, POG	Nov. 1-5	Temperature Salinity Current	BT, Rev. therm. Salinometer, Titration (low sal. samples) CBI Drag, Ekman-Merz meter	[±.2, .2C°] [±.02, .03C°] [±.01, .02°/oo] [±.02], .05°/oo ? ?	3	Nootka Sound, Muchalat Inlet, Quatsino Sound, Rupert Inlet, Holberg Inlet	O_2, pH, secchi, alkalinity	Waldichuk, Markert & Meikle (1968)
62-0031	WHITETHROAT, UBC	Mar. 28-29	Temperature Salinity	Rev. therm. Titration	[±.02, .03C°] [±.02, .04°/oo]	3	B.C. Offshore, N.E. Pacific	O_2	IOUBC (1963) MEDS #181362929 NODC #18WH50940
62-0032	WHITETHROAT, POG	May 23- June 5	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2, .2C°] [±.02, .03C°] [±.01, .02°/oo]	3	B.C. Offshore, N.E. Pacific	O_2, secchi	Dodimead et al. (1962) MEDS #180262786
62-0033	OSHAWA, UBC	July 13-14	Temperature Salinity	Rev. therm. Titration	[±.02, .03C°] [±.02, .04°/oo]	3	Offshore Vancouver Island	O_2, Fe	IOUBC (1963) MEDS #181362935
62-0034A	BROWN BEAR, U. Washington	Jan. 24-27, Feb. 6-7	Temperature Salinity	Rev. therm. Salinometer	[±.02, .03C°] ±.004, .02°/oo	3	Offshore Vancouver Island	O_2, Chl.a, PO_4, NO_3, SiO_3, secchi, zooplankton	Love (1965a) MEDS #31BB04790 NODC #31BB50479
62-0034B	BROWN BEAR, U. Washington	Mar. 28-29, Apr. 10-11	Temperature Salinity	Rev. therm. Salinometer	[±.02, .03C°] ±.004, .02°/oo	3	Offshore Vancouver Island	O_2, Chl.a, PO_4, NO_3, SiO_3, zooplankton	Love (1965b) MEDS #31BB04790 NODC #31BB50479
62-0035A	BROWN BEAR, U. Washington	June 8-9	Temperature Salinity	Rev. therm. Salinometer	[±.02, .03C°] ±.004, .02°/oo	3	Offshore Vancouver Island	O_2, Chl.a, PO_4	Love (1965c) MEDS #31BB04790 NODC #31BB50479
62-0035B	BROWN BEAR, U. Washington	Aug. 12	Temperature Salinity	Rev. therm. Salinometer	[±.02, .03C°] ±.004, .02°/oo	3	B.C. Offshore	O_2, Chl.a, PO_4, SiO_3	Love (1965c) MEDS #31BB04790 NODC #31BB50479

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
62-0035C	BROWN BEAR, U. Washington	Sept. 15-16	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, Chl.a, PO_4, SiO_3, NO_3, secchi, zooplankton	Love (1965d) MEDS #31BB04790 NODC #31BB50479
62-0036	MacMillan Bloedel, POG	Jan. 4-Dec. 12	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
62-0037	BERTHA ANN, (US)	Apr. 10	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2	MEDS #31BN07140 NODC #31BN50714
62-0038	WHITETHROAT, GRILSE, POG, PNL	Apr. 15-19	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	O_2	Herlinveaux (1963) MEDS #180962782 NODC #18WH50574
62-0039	ACONA, (US)	April 4	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2, PO_4	MEDS #31AC11680
62-0041	OSHAWA, GRILSE, POG, PNL	Nov. 19-23	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	O_2	Herlinveaux (1963) MEDS #180962792 NODC #180S50575
63-0011B	WHITETHROAT, UBC	June 3-6	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Tofino Inlet, Muchalat Inlet, Tahsis Inlet, Neroutsos Inlet, Holberg Inlet	O_2	IOUBC (1964) MEDS #181363020
63-0017	CHS	Aug. 1-16	Water level	?	?	3	Nicolaye Channel		MEDS WL Stn. #8710
63-0022	MacMillan Bloedel, POG	Jan. 9-Dec. 19	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
63-0023A	OSHAWA, U. Washington	Mar. 13-26	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, Chl.a, NO_3, PO_4, SiO_3	Love (1966b) NODC #180S50163
63-0024A	OSHAWA, UBC	Feb. 28-Mar. 3	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, secchi	IOUBC (1964) MEDS #181363010 NODC #180S50951

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
63-0024B	OSHAWA, UBC	May 8-11	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Offshore Vancouver Island	O_2, secchi	IOUBC (1964) MEDS #181363016 NODC #180S50954
63-0026A	BROWN BEAR, U. Washington	Feb. 28- Mar. 18	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, Chl.a, NO_2, PO_4, SiO_3	Love (1966a) MEDS #31BB11190 NODC #31BB51119
63-0026B	BROWN BEAR, U. Washington	Mar. 29-30	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, Chl.a, NO_2, PO_4, SiO_3	Love (1966b) MEDS #31BB11180 NODC #31BB51118
63-0026C	BROWN BEAR, U. Washington	April 17-20	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, Chl.a, NO_2, PO_4, SiO_3	Love (1966c) MEDS #31BB11170 NODC #31BB51117
63-0026D	BROWN BEAR, U. Washington	May 14-15	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, Chl.a, NO_2, PO_4, SiO_3	Love (1966c) MEDS #31BB11190 NODC #31BB51119
63-0026E	BROWN BEAR, U. Washington	June 3-4	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	Secchi, O_2, PO_4, NO_3, SiO_3	Love (1966a,d) MEDS #31BB11160 NODC #31BB51116
63-0026F	BROWN BEAR, U. Washington	June 14	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	Secchi, O_2, PO_4	MEDS #31BB11150 NODC #31BB51115
63-0026G	BROWN BEAR, U. Washington	Oct. 25	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	Chl.a, O_2, secchi	U. Washington (1966a) MEDS #31BB11120 NODC #31BB51112
63-0027	G.B. KELEZ, (US)	May 1-13	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2	MEDS #31KE09590 NODC #31KE50959
63-0028	G.B. KELEZ, (US)	Nov. 2-23	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2	MEDS #31KE09570 NODC #31KE50957
63-0030	OSHAWA, U. Washington	June 11-12	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] [±.01,.02°/oo]	3	N.E. Pacific, Offshore Vancouver Island	O_2	Love (1966e) NODC #180S50163

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
63-0032	OSHAWA, U. Washington	Dec. 12	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, NO_3, PO_4, SiO_3	U. Washington (1966b) NODC #180S50163
64-0010	ACONA, (US)	Sept. 23-26	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore & Coastal	O_2, NO_2, NO_3	MEDS #31AC51766 NODC #31AC51176
64-0020	CHS	May 12- Oct. 10	Water level	Ottboro, ?	±?,.015 m	3	Quatsino Sound, West Queen Charlottes		MEDS WL Stn. #8735, 8736, 8765, 9512
64-0026A	BROWN BEAR, U. Washington	Feb. 12	Temperature Salinity	Rev therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	Chl.a, O_2, NO_2, PO_4, SiO_3, secchi	U. Washington (1966c) MEDS #31BB11100 NODC #31BB51110
64-0026B	BROWN BEAR, U. Washington	May 20-21	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	Chl.a, O_2, NO_2, PO_4, SiO_3, secchi	U. Washington (1966d) MEDS #31BB11090 NODC #31BB51109
64-0026C	BROWN BEAR, U. Washington	Aug. 9-10	Temperature Salinity	Rev. therm. Salinometer?	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	Chl.a, O_2, NO_2, PO_4, SiO_3, secchi	U. Washington (1966d) MEDS #31BB11060 NODC #31BB51106
54-0027A	OSHAWA, U. Washington/ POG	Feb. 15-21	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.004,[.02]°/oo	3	B.C. Offshore	O_2, PO_4, NO_3, SiO_3	U. Washington (1966c)
64-0027B	OSHAWA, U. Washington	Oct. 17-18	Temperature Salinity	Rev. therm.? Salinometer	[±.02,.03C°] ±.004,[.02]°/oo	3	B.C. Offshore	O_2	U. Washington (1966d) NODC #180S50163
64-0028	POG	Aug.26,1964- Oct.7, 1965 Jan. 14-15, 1966	Temperature Salinity Water level	BT, Rev. therm. Salinometer ?	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ?	3	Barkley Sound (Fatty Basin)	O_2	Herlinveaux (1966)
64-0029	MacMillan Bloedel, POG	Mar. 26- Dec. 10	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
64-0030	G.B. KELEZ, (US)	Apr. 26-28, July 24-26, Nov. 14-17	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2	MEDS #31KE09550 NODC #31KE50955
64-0031	OSHAWA, POG?	Mar. 23	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island		MEDS #180264002 NODC #180S50055

Set I.D.	collecting agency	measure-ments	measured	methods used ?=Unknown	precision and accuracy	rating number		measurements	reference
64-0032	OSHAWA, UBC	May 13	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Offshore Vancouver Island	O_2	IOUBC (1965) MEDS #181364004 NODC #18OS50965
64-0033	OSHAWA, POG?	June 26-July 1	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	Plankton	MEDS #180264005 NODC #18OS50067
64-0034	OSHAWA, POG?	July 29-Aug. 6	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island		MEDS #180264006 NODC #18OS50067
64-0036	OSHAWA, POG?	Oct. 2-6	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore		MEDS #180264009
64-0037	WHITETHROAT, UBC	Oct. 26	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02°/oo]	3	Offshore Vancouver Island	O_2	IOUBC (1965) MEDS #181364007 NODC #18WH50094
64-0039	G.B. REED, POG	Jan. 7-13	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore, N.E. Pacific	Secchi, Chl.a, plankton	Stephens (1964)
65-0012	ENDEAVOUR, PNL	July 20-24	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] ?,±0.02	3	B.C. Offshore	Secchi, O_2	MEDS #180265007 NODC #18EN50618
65-0025	G.B. KELEZ, (US)	Jan. 17-19	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2	MEDS #31KE09550 NODC #31KE50955
65-0026	BROWN BEAR, U. Washington	Jan. 12-14	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, PO_4, NO_3, SiO_3, Chl.a	U. Washington (1967a) MEDS #31BB11040 NODC #31BB51104
65-0027	BROWN BEAR, U. Washington	Apr. 26	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, PO_4, NO_3, SiO_3, Chl.a	U. Washington (1967a) MEDS #31BB11020 NODC #31BB51102
65-0028	BROWN BEAR, U. Washington	July 3, 7	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2	U. Washington (1967b) MEDS #31BB11010 NODC #31BB51101
65-0029	BROWN BEAR, U. Washington	Aug.20-21	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, PO_4, NO_3, SiO_3, Chl.a	U. Washington (1967a) MEDS #31BB11000 NODC #31BB51100
65-0030	BROWN BEAR, U. Washington	Nov. 5-6	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.004,.02°/oo	3	Offshore Vancouver Island	O_2, PO_4, NO_3, SiO_3, Chl.a	U. Washington (1967a) MEDS #31BB10980 NODC #31BB51098

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
65-0031	VICTORY VI, POG	June 15- Dec. 14	Temperature Rev. therm. Salinity	BT, [±.02,.03C°] Salinometer	[±.2,.2C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, pH, alkalinity	Waldichuk, Meikle & Hyslop (1968)
65-0032	ENDEAVOUR, POG?	May 12-15	Temperature Salinity	BT, Rev. therm. Salinometer?	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island		MEDS #180265005 NODC #18EN50601
65-0034	MacMillan Bloedel, POG	Jan. 14- Dec. 9	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
65-0060	ENDEAVOUR, UBC	Aug. 14-15	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	B.C. Offshore	O_2	IOUBC (1966) MEDS #181365007
66-0021	MARABELL, CHS	May 5- July 2	Water level	Ottboro, Foxboro	±?,.015 m	3	Neroutsos Inlet, Uchucklesit Inlet		MEDS WL Stn. #8557, 8750
66-0025	ENDEAVOUR, UBC	Feb. 1	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Offshore Vancouver Island	O_2	IOUBC (1967) MEDS #181366001 NODC #18EN50974
66-0026	YAQUINA, (US)	July 21	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Queen Charlottes	O_2, PO_4, ph	MEDS #31YQ13300
66-0027A	LAYMORE, POG	Aug. 16-18	Temperature Salinity Current	BT, Rev. therm. Salinometer, Titration (low sal. samples) Drag, Ekman-Merz meter	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] [±.02],.05°/oo ? ?	3	Alberni Inlet	O_2, pH, alkalinity, secchi	Waldichuk, Meikle & Hyslop (1968)
66-0027B	LAYMORE, POG	Aug. 19-23	Temperature Salinity Current	BT, Rev. therm. Salinometer, Titration (low sal. samples) Drag, Ekman-Merz meter	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] [±.02],.05°/oo ? ?	3	Nootka Sound- Muchalat Inlet, Quatsino Sound, Rupert Inlet, Holberg Inlet, Neroutsos Inlet	O_2, pH, alkalinity, secchi	Waldichuk, Markert & Meikle (1968)
66-0029	T.G. THOMPSON, U. Washington	Dec. 1	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.004,[.02]°/oo	3	Offshore Strait of Juan de Fuca	O_2	U. Washington (1967c) MEDS #31TT10560 NODC #31TT51056

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
66-0030	MacMillan Bloedel, POG	Mar. 23- Dec. 30	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02^{o}/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
66-0031	VICTORY VI, POG	Jan.-Dec. (monthly)	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02^{o}/oo]	3	Alberni Harbour	O_2, pH, alkalinity	Waldichuk, Meikle & Hyslop (1968)
66-0060	Mar. Sc. Dir., Pac. Region.	Sept. 8-23	Drift	Drogues	?	3	Fatty Basin (Barkley Sound)		Herlinveaux (1973)
67-0022	ENDEAVOUR, POG	Sept. 12- Oct. 5	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04^{o}/oo	3	B.C. Offshore	NO_3, O_2, SiO_3, PO_4, plankton	Dodimead (1984) MEDS #180267008 NODC #18EN50190
67-0024	MARABELL, CHS	Aug. 10-26	Water level	Foxboro	±?,.015 m	3	Muchalat Inlet		MEDS WL Stn. #8650
67-0026	T.G. THOMPSON, U. Washington	Feb. 5-15	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, PO_4, NO_3, SiO_3	MEDS #31TT11910 NODC #31TT51191
67-0029	SEDCO 135F (drilling rig), POG	Nov. 5- Dec. 16	Current Waves	? Pressure	? ?	3	Offshore Vancouver Island		Herlinveaux (pers. comm.) Hafer (1970)
67-0030	MacMillan Bloedel, POG	Jan. 24- Dec. 15	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02^{o}/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
67-0031	VICTORY VI, POG	Jan.,Sept., Dec.	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] [±.01,.02^{o}/oo]	3	Alberni Harbour	O_2, pH, alkalinity	Waldichuk, Meikle & Hyslop (1968)
68-0011B	VECTOR, UBC Cruise 68/22	July 15	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]^{o}/oo	3	B.C. Offshore	O_2, secchi	IOUBC (1969) MEDS #181368017 NODC #18VT51001
68-0022	ENDEAVOUR, POG	Apr. 17-28	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04^{o}/oo	3	B.C. Offshore		Dodimead (1984) MEDS #180268006 NODC #18EN50197
68-0024	ENDEAVOUR, POG	Oct. 1-16	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04^{o}/oo	3	B.C. Offshore		Dodimead (1984) MEDS #180268008 NODC #18EN50198

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
68-0026	SEDCO 135F, DREP	Jan. 1968- Feb. 1969	Waves Current	Pressure ?	? ?	3	Offshore Vancouver Island		Herlinveaux (pers. comm.) Hafer (1970)
68-0033	YAQUINA, (US)	Feb. 1	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2, PO_4, NO_3, SiO_3, pH	MEDS #31YQ15030 NODC #31YQ51503
68-0034	T.G. THOMPSON, U. Washington	Mar. 27	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2	MEDS #31TT13750 NODC #18TT51375
68-0036A	LAYMORE, UBC	Apr. 23	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]^{o}/oo	3	Offshore Vancouver Island		IOUBC (1969) MEDS #181368010
68-0039	ENDEAVOUR, UBC	Sept. 17-18	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]^{o}/oo	3	Offshore Vancouver Island	O_2	IOUBC (1969) MEDS #181368020 NODC #18EN51004
68-0040	VECTOR, UBC	Nov. 19	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]^{o}/oo	3	Offshore Vancouver Island		IOUBC (1969) MEDS #181368024 NODC #18VT51007
68-0042	MacMillan Bloedel, POG	Jan. 26- Dec. 4	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02^{o}/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
69-0030	LAYMORE, POG	Apr. 15-30	Temperature Salinity	Bisset-Berman 9006 STD	±.02,.04C° ±.02,.04^{o}/oo	3	B.C. Offshore		Dodimead (1984) MEDS #180269020 NODC #18LY50200
69-0031	ENDEAVOUR, POG	Sept. 30- Oct. 16	Temperature Salinity	Bisset-Berman 9006 STD	±.02,.04C° ±.02,.04^{o}/oo	3	B.C. Offshore		Dodimead (pers.comm.) MEDS #180269021
69-0034	G.B. REED, POG	Mar. 6-10	Temperature Salinity	Rev. therm. ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2	Dodimead (1984)
69-0038	VECTOR, UBC	Jan. 21	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] ±.003,[.02]^{o}/oo	3	Offshore Vancouver Island		IOUBC (1970) MEDS #181369002 NODC #189951372
69-0039	AKADEMIK SHIRSHOV, (USSR)	Feb. 24- Mar. 2	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	Offshore Vancouver Island	PO_4, NO_2, O_2, SiO_3, pH	MEDS #90SC13320 NODC #90SC51332

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
69-0041	LAYMORE, UBC	Mar. 4-6	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	B.C. Offshore	O_2	IOUBC (1970) MEDS #181369006
69-0043	T.G. THOMPSON, U. Washington	June 1	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2, PO_4, NO_3, SiO_3	MEDS #31TT16730 NODC #31TT51673
69-0044	LAYMORE, UBC	June 27-29	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	B.C. Offshore	O_2	IOUBC (1970) MEDS #181369014 NODC #18LY50738
69-0045	VECTOR, UBC	July 16	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.003,.02°/oo]	3	Offshore Vancouver Island		IOUBC (1970) MEDS #181369015 NODC #18VT51018
69-0046	PARIZEAU, DREP/Pacific Environ. Inst., W. Vancouver	Aug. 14-15	Temperature Salinity Current	BT, Rev. therm. Salinometer Hytech	[±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo] ?	3	B.C. Offshore (Bowie Seamount)	SiO_3, NO_3, PO_4	Herlinveaux (1971) MEDS #181369014 NODC #18PZ50887
69-0047	YAQUINA, (US)	Aug. 24	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, PO_4, pH	MEDS #31YQ16570 NODC #31YQ51657
69-0048	T.G. THOMPSON, U. Washington	Nov. 3-4	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore		MEDS #31TT15700 NODC #31TT51570
69-0049	MacMillan Bloedel, POG	Jan. 22-Apr. 18	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, BOD	Waldichuk, Markert & Meikle (1969)
69-0051A	Mar. Sc. Dir., Pac. Region	May 6-7, June 7-July 7	Current	HydroProducts, Geodyne	?	3	Barkley Sound (Fatty Basin)	Turbidity	Herlinveaux (1973) CANDI #CR1077N02
		May 21-July 2	Temperature	Ryan recorder	?				
			Temperature, Salinity	Beckman meter	?				
69-0051B	DECIBAR, POG	May 23-July 3	Temperature Salinity	Industrial Instruments CTD	? ?	3	Fatty Basin (Barkley Sound)	O_2, secchi, pankton	Hardon (1969)
69-0061	CHS	Mar. 18-26	Water level	Foxboro	±?,.015 m	3	Barkley Sound		MEDS WL Stn. #8552, 8553

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
69-0062	CHS	Oct. 1- Dec. 4	Water level	Ott, Ottboro	±?,.015 m	3	Alberni Inlet, Barkley Sound, W. Vancouver Island		MEDS WL Stn. #8545, 8565, 8595
69-0064	Bamfield Marine Station	July 12/69- Oct. 1980	Temperature (surface) Salinity (surface)	Thermometer Salinometer	?,±.2C° ?,±.02°/oo	3	Barkley Sound		Giovando (1981)
70-0020A	VECTOR, UBC	May 27-29	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] ±.003,[.02]°/oo	3	Offshore Vancouver Island	Secchi, O_2	IOUBC (1971) MEDS #181370010 NODC #18VT51028
70-0020C	VECTOR, UBC	July 25-30	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] ±.003,[.02]°/oo	3	Muchalat Inlet, Alberni Inlet, Kashuth Inlet, Offshore Vancouver Island	O_2	IOUBC (1971) MEDS #181370014 NODC #18VT51030
70-0031	LAYMORE, POG	Mar. 5-17	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04°/oo	3	B.C. Offshore		Dodimead (pers. comm.) MEDS #180270012
70-0032	CHS	June 12/70- Sept. 30/73 June 4,1970- continuing	Water level Water level	Ottboro Ott	±?,.03 m ±?,.01 m	3	Barkley Sound, West Vancouver Island		MEDS WL Stn. #8545,8595
70-0039	ENDEAVOUR, UBC	Apr. 14-16	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] ±.003,[.02]°/oo	3	Offshore Vancouver Island		IOUBC (1971) MEDS #181370008 NODC #18EN51027
70-0041	T. G. THOMPSON, U. Washington	May 23-26	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, PO_4, NO_3, SiO_3	MEDS #31TT18680 NODC #31TT51868
70-0042	HAKUHO-MARU, (Japan)	May 25	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, PO_4, NO_2, NO_3, SiO_3, pH	MEDS #49HH07850 NODC #49HH51827
70-0044	LAYMORE, UBC	Aug. 5-6	Temperature Salinity	BT, Rev. therm. Salinometer	[±.2,.2C°] [±.02,.03C°] ±.003,[.02]°/oo	3	Offshore Vancouver Island	O_2	IOUBC (1971) MEDS #181370015 NODC #18LY51031
70-0046	PROTEUS, (US)	Aug. 22	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore	O_2, PO_4, NO_2, NO_3	MEDS #314T24270 NODC #314T52427

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
70-0047	E. P. ALBERNI, Pac. Biol. Stn.	Jan. 20-Nov. 4	Temperature Salinity Current	Beckman RS5-3 ?	?,[±.1C°] ?,[±.1°/oo] ?	3	Alberni Inlet	Fluorescence, NO_3, PO_4, SiO_3, Chl.a, plankton (species & abundance), fish (species, stomach contents, etc.), secchi, O_2	Kask & Parker (1971)
70-0065	CHS	Dec. 3,1970-continuing	Water level	Ott	±?,.01 m	3	Alberni Inlet		MEDS WL Stn. #8575
71-0066	MEDS	1970-continuing	Waves	Waverider	Amplitude ±3% for .065-.03 Hz	3	West coast Vancouver Island		MEDS
71-0037	ENDEAVOUR, PBS	Mar. 5-21	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04°/oo	3	B.C. Offshore		Dodimead (pers. comm.) MEDS #180271015
71-0038	W.J. STEWART, CHS	June 4-July 8	Water level Drift	Ottboro, Foxboro Drogues	±?,.015 m ?	3	Quatsino Sound		CHS (1972) McIntosh (1971) MEDS WL STN. #8754, 8755, 8756
71-0048	AKADEMIK, KOROLEV, (USSR)	Jan. 25, 30	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	Offshore Vancouver Island	O_2?	MEDS #90AM03030
71-0049	VECTOR UBC	Feb. 9	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet		IOUBC (1972) MEDS #181371004 NODC #18VT51083
71-0050	VECTOR, UBC	March 6-7	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Rupert Inlet, Holberg Inlet	O_2	IOUBC (1972) MEDS #181371008 NODC #18VT51087
71-0051	VECTOR, UBC	Apr. 21-22	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Rupert Inlet, Holberg Inlet		IOUBC (1972) MEDS #181371012 NODC #18VT51091
71-0052	AKADEMIK BERG, (USSR)	Aug. 30-Nov. 10	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	B.C. Offshore		NODC #90AJ50500
71-0053	VECTOR, UBC	Sept. 21	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2	IOUBC (1972) MEDS #181371026 NODC #18VT51105

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
71-0054	PARIZEAU, UBC	Oct. 27	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	O_2	IOUBC (1972) MEDS #181371029 NODC #18PZ51108
71-0055	ENDEAVOUR, UBC	Feb. 22-25	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	O_2	IOUBC (1972) MEDS #181371007 NODC #18EN51086
71-0056	T. G. THOMPSON, U. Washington	Mar. 2	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Off Cape Flattery	Chemical	MEDS #31TT18690 NODC #31TT51869
71-0057	ENDEAVOUR, UBC	May 11-19	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	B.C. Offshore	O_2	IOUBC (1972) MEDS #181371013 NODC #18EN51092
71-0058	T. G. THOMPSON, U. Washington	June 9-14	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Vancouver Island	O_2, PO_4, NO_3, SiO_3	MEDS #31TT18480 NODC #31TT51848
71-0059	VECTOR, UBC	July 20-22	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	O_2	IOUBC (1972) MEDS #181371020 NODC #18VT51099
71-0060	G. B. KELEZ, (US)	Oct. 22-Nov. 3	Temperature Salinity	CTD	?	2	B.C. Offshore		MEDS #31KE84130 NODC #31KE58413
71-0061	OCEANOGRAPHER, (US)	Oct. 14-Nov. 19	Temperature Salinity	CTD	?	2	Offshore Vancouver Island		MEDS #31OC85160 NODC #31OC58516
71-0062A	Pac. Biol. Station, Nanaimo	Feb. 17-Mar. 11	Current profiles	?	?	2	Alberni Inlet	Ecological study	CAMDI #C81076Y01
71-0062B	Pac. Biol. Station, Nanaimo	July 21-22	Current profiles Conductivity	Chesapeake Bay drogue ?	? ?	3	Alberni Inlet		Parker, Sibert & Terhune (1972)
71-0065A	Pac. Biol. Station, Nanaimo	June 24	Conductivity	CM^2 meter	?,[±.1°/oo]	3	Alberni Inlet	O_2, Chl.a, NO_3, NO_2, PO_4, secchi	Parker, Mackenzie-Grieve & Kask (1974)
71-0065B	Pac. Biol. Station, Nanaimo	Aug. 9-18	Temperature Salinity	Beckman meter, CM^2 meter	?,[±.1C°] ?,[±.1°/oo]	3	Alberni Inlet	O_2, Chl.a, NO_3, NO_2, PO_4, secchi	Parker, Mackenzie-Grieve & Kask (1974)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
71-0065C	E.P. ALBERNI, Pac. Biol. Station, Nanaimo	Apr. 29	Temperature Salinity	Beckman meter	?,[±.1C°] ?,[±.1°/oo]	3	Alberni Inlet	Secchi, plankton	Parker, Kask & Windecker (1976)
71-0065D	E.P. ALBERNI, Pac. Biol. Station, Nanaimo	June 9-10	Conductivity	CM^2 meter	?,[±.1°/oo]	3	Alberni Inlet	Secchi, plankton	Parker, Kask & Windecker (1976)
71-0097	Utah Mines Ltd.	March 1971 -continuing	Temperature Salinity	Rev. therm. Titration	[±.02,.03C°] [±.01,.02°/oo]	3	Rupert Inlet, Holberg Inlet, Quatsino Sound	O_2, pH, metal concentrates, alkalinity, benthos, suspended solids, turbidity, sediment, plankton	Utah Mines Ltd. quarterly reports Evans & Poling (1975) Pelletier (1977)
71-0099A	PARIZEAU, CHS	Feb. 2-May 13	Water level Current	Ottboro, Foxboro Neyrpic, Drift pole	±?,.015 m ? ?	2	Alberni Inlet, Uchuckleslt Inlet		MEDS WL Stn. #8556, 8558, 8559, 8560, 8562, 8564, 8565, 8570
71-0099B	UBC	Feb.12-May 20	Conductivity	In-situ 'chain'	±1.,2. mmhos/cm	3	Alberni Inlet	Wind	Farmer (1972)
71-0104	DOT Lightstation at Cape Beale	Jan. 1971-present	Temperature (surface) Salinity (surface)	Thermometer Salinometer	?,±.2C° ?,±.02°/oo	3	Barkley Sound		Giovando (1981)
72-0050	OGON, (USSR)	July 15-17, Sept.6-16, Nov. 3-4	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	Offshore Vancouver Island	PO_4, O_2	MEDS #900P04900 NODC #900P50490
72-0051	BARTLETT, (US)	Aug. 2-4	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	B.C. Offshore		MEDS #314U83080 NODC #314U58308
72-0052	LAYMORE, UBC	Oct. 24	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Offshore Vancouver Island	O_2	IOUBC (1973) MEDS #181372028
73-0040	CHS	Feb. 23-Dec. 31	Water level	Hagenuk, Ottboro	±?,.1 m	3	Langara Point		MEDS WL Stn. #9964

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
73-0050	PARIZEAU, UBC	Mar. 6-8	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Entrance to Strait of Juan de Fuca		IOUBC (1974) MEDS #181373007
73-0052	VECTOR, UBC	Sept. 13	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Alberni Inlet	O_2	IOUBC (1974) MEDS #181373030
73-0053	CALIGUS, Pac. Biol. Stn.	Mar. 20	Temperature Salinity	Beckman meter	?,[±.1C°] ?,[±.1°/oo]	3	Alberni Inlet	O_2, PO_4, NO_3, NO_2, Chl.a	Parker et al. (1973a)
73-0054	CALIGUS, Pac. Biol. Station	Apr. 17	Temperature Salinity	Beckman meter	?,[±.1C°] ?,[±.1°/oo]	3	Alberni Inlet	O_2, PO_4, NO_3, NO_2, Chl.a	Parker et al. (1973b)
73-0056A	VECTOR, or LAYMORE, Pac. Env. Inst.	May 3-4	Temperature	Rev. therm.	[±.01,.02C°]	3	Quatsino Sound, Neroutsos Inlet	pH, O_2	Davis, Shand & Christie (1977)
73-0056B	VECTOR, or LAYMORE, Pac. Env. Inst.	July 24-25	Temperature Salinity	Rev. therm. Hydrometer	[±.01,.02C°] [±.2,.2°/oo]	3	Quatsino Sound, Neroutsos Inlet	pH, O_2	Davis, Shand & Christie (1977)
73-0119	OCEANOGRAPHER, NOAA	Aug.22-Sept. 20	Water level Current Temperature Salinity	Filloux pressure gauge Geodyne Plessey 9006 CTD	? ? ±?,.02C° ±?,.02°/oo	3	Offshore Vancouver Island		Pearson (1975) Holbrook (1975)
73-0124A	CALIGUS, Pac. Biol. Stn.	Apr. 4-12	Temperature Salinity	Beckman meter	?,[±.1C°] ?,[±.1°/oo]	3	Alberni Inlet	Secchi, zooplankton	Parker & Kask (1976)
73-0124B	CALIGUS, Pac. Biol. Stn.	May 1-4	Temperature Salinity	Beckman meter	?,[±.1C°] ?,[±.1°/oo]	3	Alberni Inlet	Secchi, zooplankton	Parker & Kask (1976)
73-0124C	CALIGUS, Pac. Biol. Stn.	May 22-25	Temperature Salinity	Beckman meter	?,[±.1C°] ?,[±.1°/oo]	3	Alberni Inlet	Secchi, zooplankton	Parker & Kask (1976)
73-0124D	CALIGUS, Pac. Biol. Stn.	July 13-15	Temperature Salinity	Beckman meter	?,[±.1C°] ?,[±.1°/oo]	3	Alberni Inlet	Secchi, zooplankton	Parker & Kask (1976)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
74-0055	PRIBOY, (USSR)	Feb. 9	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	B.C. Offshore	O_2?	MEDS #90PY04570
74-0056	MIDGETT, (US)	Aug. 29-30	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	2	B.C. Offshore		MEDS #319I26530 NODC #319I52653
74-0057	PARIZEAU, MEDS/IOS	Nov.28,1974-Apr. 8,1975	Temperature Salinity Current Water level	Bissett-Berman CTD Aanderaa RCM4 TG1A	? ±1cm/s or 2% speed @ ±.004,.04 psi @	3	Offshore Vancouver Island, Union Seamount		Huyer, Gagnon & Huggett (1976) Crawford, Rapatz & Huggett (1981)
74-0058	EPS	May 30-Sept. 24	Temperature Salinity	Thermometer Hydrometer?	[±?,.3C°] [±.2,.2°/oo]	3	Rupert Inlet, Holberg Inlet	Turbidity, O_2, pH, CO_3, NO_3, NO_2, NH_3, SiO_3, Chl.a, plankton	Goyette & Nelson (1977) Sullivan (1979a)
74-0059	MacMillan Bloedel Ltd.	May 1-2, June 12-14, Aug. 14-16, Oct. 22-29	Temperature Salinity	Beckman RS5-3	?,[±0.1C°] ?,[±0.1°/oo]	3	Alberni Inlet	O_2, pH, susp. solids, NO_2, NO_3, PO_4, B, Zn, Chl.a, secchi	Ketcham (1976)
74-0105	CHS	Feb. 20-Dec. 31	Water level	Ott	±?,.01 m	3	Barkley Sound		MEDS WL Stn. #8545
74-0106	CHS	May 11,1974-July 2,1975	Water level	TG1A	±.004,.04 psi @	3	Bowie Seamount		Crawford, Rapatz & Huggett (1981)
74-0107	CHS	Aug. 22-Sept. 13	Water level	Foxboro	±?,.015 m	3	Alberni Inlet		MEDS WL Stn. #8556
74-0112	Mac. 1, IOS (Coastal Group)	Apr. 20-May 7	Current	Aanderaa RCM4	±1cm/s or 2% speed @	3	Quatsino Sound		Stucchi & Farmer (1976)
75-0070	CHS	May 27-Aug. 7	Water level	Foxboro	±?,.015 m	3	Barkley Sound, Langara Point		MEDS WL Stn. #8585, 9964
		Mar. 11-continuing	Water level	Hagenuk/Ottboro	±?,.1 m				
75-0079	BOUTWELL, (US)	Mar. 29-30	Temperature Salinity	CTD	?	2	B.C. Offshore		MEDS #310U84530 NODC #310U58453
75-0080	ENDEAVOUR, IOS (Offshore Group)	Aug. 20, Sept. 7	Temperature Salinity	Guildline 8700 CTD	±?,.01C° ±?,.02°/oo	3	B.C. Offshore	O_2	IOS (1978) MEDS #181575010

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
75-0081	EPS	May 6- Nov. 28	Temperature Salinity	Thermometer Hydrometer?	[±?,.3C°] [±.2,.2°/oo]	3	Rupert Inlet, Holberg Inlet	O_2, pH, CO_3, NO_3, NO_2, NH_3, SiO_3, Chl.a	Sullivan (1979a)
75-0084A	LAYMORE, or VECTOR, Pac. Env. Inst.	July 29-31	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Quatsino Sound, Neroutsos Inlet	O_2	Davis, Shand & Christie (1977)
75-0084B	LAYMORE, or VECTOR, Pac. Env. Inst.	Nov. 25-26	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Quatsino Sound, Neroutsos Inlet	O_2	Davis, Shand & Christie (1977)
75-0121	Charter Boat, IOS (Coastal Group)	May 14- Aug. 21	Current	Aanderaa RCM4	±1cm/s or 2% speed @	3	Rupert Inlet, Holberg Inlet, Quatsino Sound		Stucchi (pers. comm.)
75-0122	Penny Sue, IOS (Coastal (Group)	Aug. 7- Dec. 9	Current Temperature Salinity	Aanderaa RCM4 Guildline 8700 Analog CTD	±1cm/s or 2% speed @ ±?,.02C° ±?,.05°/oo	3	Rupert Inlet, Holberg Inlet, Quatsino Sound, Neroutsos Inlet		Stucchi (pers. comm.)
75-0123	Charter Boat, IOS (Coastal Group)	Dec. 5,1975- Apr.12,1976	Current	Aanderaa RCM4	±1cm/s or 2% speed @	3	Rupert Inlet, Holberg Inlet, Quatsino Sound		Stucchi (pers. comm.)
75-0128	Charter Boat, IOS (Coastal Group)	Mar. 14- May 13	Current	Aanderaa RCM4	±1cm/s or 2% speed @	3	Quatsino Sound, Rupert Inlet, Holberg Inlet		Stucchi & Farmer (1976)
76-0067	CAMPBELL, (US)	Sept. 1-4	Temperature Salinity	Rev. therm.? ?	[±.02,.03C°] ?	3	Offshore Queen Charlottes		MEDS #31CM85090 NODC #31CM58509
76-0068	EPS	May 30- Oct. 3	Temperature Salinity	Thermometer Salinometer	?,[±.3C°] [±.01,.02°/oo]	3	Rupert Inlet, Holberg Inlet	O_2, pH, CO_3, NO_3, NO_2, NH_3, SiO_3, Chl.a, turbidity	Goyette & Nelson (1977) Sullivan (1979a)
76-0069A	LAYMORE, or VECTOR, Pac. Env. Inst.	Jan. 13-14	Temperature Salinity	? ?	? ?	2	Quatsino Sound, Neroutsos Inlet	O_2	Davis, Shand & Christie (1977)
76-0069B	LAYMORE, or VECTOR, Pac. Env. Inst.	June 8-9	Temperature Salinity	? ?	? ?	2	Quatsino Sound, Neroutsos Inlet	O_2	Davis, Shand & Christie (1977)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
76-0071A	EPS	Nov. 16	Temperature Salinity	Thermometer Salinometer	?,[±.3C°] [±.01,.02°/oo]	3	Muchalat Inlet	O_2, pH, CO_3, NO_3, NO_2, NH_3, SiO_3, Chl.a, transmissivity	Sullivan (1979b)
76-0071B	EPS	Mar.12, 1977	Temperature Salinity	Thermometer Salinometer	?,[±.3C°] [±.01,.02°/oo]	3	Muchalat Inlet	O_2, benthos	Sullivan (1979b)
76-0071C	EPS	May 26, 1977	Temperature Salinity	Thermometer Salinometer	?,[±.3C°] [±.01,.02°/oo]	3	Muchalat Inlet	O_2, pH, CO_3, NO_3, NO_2, NH_3, SiO_3, Chl.a, transmissivity	Sullivan (1979b)
76-0071D	EPS	Aug.17, 1977	Temperature Salinity	Thermometer Salinometer	?,[±.3C°] [±.01,.02°/oo]	3	Muchalat Inlet	O_2, pH, CO_3, NO_3, NO_2, NH_3, SiO_3, Chl.a, transmissivity	Sullivan (1979b)
76-0071E	EPS	Sept.28,1977	Temperature Salinity	Thermometer Salinometer	?,[±.3C°] [±.01,.02°/oo]	3	Muchalat Inlet	O_2, pH, CO_3, NO_3, NO_2, NH_3, SiO_3, Chl.a, transmissivity	Sullivan (1979b)
76-0072	VECTOR, UBC	Aug. 25-26	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.003,.02°/oo]	3	Rupert Inlet	O_2	IOUBC (1977)
76-0073	VECTOR, UBC	Nov. 23-24	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.003,.02°/oo]	3	Rupert Inlet		IOUBC (1977)
76-0074	VECTOR, UBC	July 12-16	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.003,.02°/oo]	3	Alberni Inlet, Muchalat Inlet,	O_2	IOUBC (1977)
76-0101	NOAA	Aug. 1976-continuing	Wave	Magnavox, General Dynamics; UHF/HF	?	3	B.C. Offshore		NOAA, on file
76-0102	CHS	Jan. 1-continuing	Water level	Ott	±?,.01 m	3	Barkley Sound		MEDS WL Stn. #8545
76-0103	Charter Boat, IOS (Coastal Group)	Apr. 7-May 27	Current	Aanderaa RCM4	±1cm/s or 2% speed @	3	Rupert Inlet, Holberg Inlet, Quatsino Sound		Stucchi (pers. comm.)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
77-0057A	PARIZEAU, IOS	May 17-22	Temperature	Guildline 8100, 8700 CTD Rev. therm.	?,±0.03C° [±.02,.03C°]	3	Queen Charlotte Sound	O_2, NO_3, PO_4, SiO_3, bottom sediments	Huggett et al. (1981) Thomson, Huggett & Kuwahara (1981)
			Salinity	Guildline 8100, 8700 CTD Salinometer	?,±0.05°/oo [±.01,.02°/oo]				
			Current Water level	Aanderaa RCM4 750A	±1cm/s,±5° @ [±.001,.01% full scale range]				
77-0057B	ENDEAVOUR, IOS	July 14-22	Temperature	Guildline 8100, 8700 CTD Rev. therm.	?,±0.03C° [±.02,.03C°]	3	Queen Charlotte Sound	O_2, NO_3, PO_4, SiO_3	Huggett et al. (1981) Thomson, Huggett & Kuwahara (1981)
			Salinity	Guildline 8100, 8700 CTD Salinometer	?,±.0.05°/oo [±.01,.02°/oo]				
			Current	Aanderaa RCM4	±1cm/s,±5° @				
77-0057C	PARIZEAU, IOS	Sept. 20-27	Temperature Salinity	Guildline 8100, 8700 CTD	±?,.03C° ±?,.05°/oo	3	Queen Charlotte Sound	O_2	Thomson, Huggett & Kuwahara (1981)
77-0081	CAMPBELL, (US)	Jan. 29-31	Temperature Salinity	?CTD		2	Offshore Queen Charlottes		MEDS #31CM85290 NODC #31CM58529
77-0082	CAMPBELL, (US)	Sept. 5-6	Temperature Salinity	?CTD		2	Offshore Queen Charlottes		MEDS #31CM85350 NODC #31CM58535
77-0083	IOS, Dobrocky Seatech Ltd.	Nov. 18-22	Temperature Salinity Current	Rev. therm. ? Aanderaa	[±.02,.03C°] ? ±1cm/s or 2% speed @	3	Alberni Inlet	O_2	Buckingham (1980)
77-0084	VECTOR, EPS	June 18	Temperature Salinity	?		3	Offshore Queen Charlottes, Tasu Sound	O_2, NO_3, PO_4, SiO_3, C, pH, Chl.a, bottom sediment, CO_3, transmissivity, benthos	Brothers (1978)
77-0085	PARIZEAU, Chemex Labs Ltd., IOS (Ocean Chemistry)	Nov. 7-11	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Offshore Vancouver Island	O_2, bottom sediment	Twaites, Doyle & Armanini (1978)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
78-0028A	IMPERIAL TOFINO, UBC	Mar. 14	Salinity (surface)	Salinometer	±.003,?°/oo	3	B.C. Offshore	Chl.a, plankton (species/ abundance)	Dilke, McKinnell & Perry (1979)
78-0028C	IMPERIAL TOFINO, UBC	Aug. 12-20	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? ±.003,?°/oo	3	B.C. Offshore	Chl.a, plankton (species/ abundance)	Dilke, McKinnell & Perry (1979)
78-0028D	IMPERIAL TOFINO, UBC	Sept. 11-27	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? ±.003,?°/oo	3	B.C. Offshore	Chl.a, plankton (species/ abundance)	Dilke, McKinnell & Perry (1979)
78-0028E	IMPERIAL TOFINO, UBC	Oct. 18-26	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? ±.003,?°/oo	3	B.C. Offshore	Chl.a, plankton (species/ abundance)	Dilke, McKinnell & Perry (1979)
78-0028F	IMPERIAL TOFINO, UBC	Jan.2-7,1979	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? ±.003,?°/oo	3	B.C. Offshore	Chl.a, plankton (species/ abundance)	Dilke, McKinnel & Perry (1979)
78-0064	CAMPBELL, (US)	Feb. 9	Temperature Salinity	?CTD	? ?	2	B.C. Offshore (off Dixon Entrance)		MEDS #31CM85340 NODC #31CM58534
78-0066	PARIZEAU, Chemex Labs Ltd. & IOS (Ocean Chemistry)	Feb. 6-10	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, bottom sediment	Twaites, Doyle & Armanini (1978)
78-0067	VECTOR, UBC	Sept. 5-22	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Rupert Inlet	O_2	IOUBC (1979)
78-0101	IOS (Coastal Zone)	Sept.13/78-Jan.17/79	Water level	AML 750A	[±.001,.01% full scale range]	3	Rupert Inlet, Holberg Inlet		Stucchi (pers. comm.)
79-0032	RIVTOW VIKING, Seakem, Ship-of-Opportunity	July 7-12	Temperature (3 m) Salinity (3 m)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Vancouver Island	NO_2, NO_3, PO_4, Chl.a, fluorescence	Borstad, Louttit & Gale (1979)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
79-0036C	IMPERIAL TOFINO Ship-of-Opportunity	July 13-19	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Queen Charlottes	NO_3, NO_2, PO_4, SiO_3, Chl.a	Perry et al. (1981)
79-0036E	IMPERIAL TOFINO Ship-of-Opportunity	Apr. 10-19 1980	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Queen Charlottes	NO_3, NO_2, PO_4, SiO_3, Chl.a	Perry et al. (1981)
79-0039	PANDORA II, IOS (Tides & Currents, Offshore Oceanography), CODE	Aug. 3-11	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Offshore Vancouver Island	O_2	Thomson, Crawford & Huggett (1984a)
79-0065	OCEAN KING, IOS (Tides & Currents)	Apr.18,1979-Jan.26,1980	Water level	750A	[±.001,.01% full scale range]	3	West coast Vancouver Island		Woodward (pers. comm.)
79-0068	VECTOR, IOS (Coastal Zone), CODE	Apr. 18-19 Apr.19,1979-Dec.31,1980	Temperature Salinity Current	Guildline 8700 MK II CTD Aanderaa RCM4, Neil Brown	[+.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ ?	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
79-0069	PARIZEAU, IOS (Tides & Currents, Offshore Oceanography), CODE	May 6-12 May 6-Oct.10 May 9-Sept. 12	Temperature Salinity Current Wave Water level	Guildline 8701 CTD Aanderaa RCM4 Waverider 750A	[+.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ Amplitude ±3%,.065-.03 Hz [±.001,.01% full scale range]	3	Offshore Vancouver Island	O_2	Thomson, Crawford & Huggett (1984a)
79-0070	ENDEAVOUR, IOS (Ocean Ecology)	May 22-28	Temperature Salinity	Guildline 8701 CTD	±.003,.01C° ±.005,.01°/oo	3	Offshore Vancouver Island	Fluorescence, plankton, NO_3, PO_4, O_2, SiO_3, Chl.a, benthos	Hill et al. (1982a)
79-0071A	PARIZEAU, IOS (Tides & Currents, Offshore Oceanography), CODE	Sept. 10-27 Sept.14/79-May 10/80	Temperature Salinity Current Water level	Guildline 8701 CTD Aanderaa RCM4, CMDR 750A, TG2A AM12	[+.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ [±.001,.01% full scale range]	3	Offshore Vancouver Island	O_2	Thomson, Crawford & Huggett (1984a)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
79-0071C	PARIZEAU, IOS (Coastal Zone), CODE	Oct. 4-13 Oct.3,1979-Feb. 9,1980	Temperature Salinity Current	Guildline 8700 MK II CTD Aanderaa RCM4	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
79-0072	PARIZEAU, IOS (Coastal Zone)	Nov. 26-Dec. 6 Nov.19,1979-Feb. 9,1980	Temperature Salinity Current Water Level	Guildline 8701 CTD Aanderaa RCM4 AML 750A	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ [±.001,.01% full scale range]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
79-0073	PARIZEAU, IOS (Coastal Zone), CODE	May 20,1979-Apr.22,1980 May 18-24	Current Temperature Salinity	Aanderaa RCM4 Guildline 8700 MK II CTD	±1cm/s or 2% speed @ [±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island		Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
79-0074	ENDEAVOUR, IOS (Coastal Zone), CODE	Jan. 30-Feb. 4 Jan. 18-Apr. 21	Temperature Salinity Water level	Guidline 8700 MK II CTD AML 750A	[±.005,.01C°] [±.005,.02°/oo] [±.001,.01% full scale range]	3	Alberni Inlet, Muchalat Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
79-0075	PANDORA II, IOS (Coastal Zone), CODE	Mar. 8-9	Temperature Salinity	Guidline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
79-0076	PANDORA II, IOS (Coastal Zone), CODE	June 21-22	Temperature Salinity	Guidline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
79-0077	VECTOR, IOS (Coastal Zone)	Aug. 22-23 Aug. 23-Oct. 11	Temperature Salinity Current	Guildline 8701 CTD Aanderaa RCM4	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @	3	Alberni Inlet	O_2	Lee & Stucchi (1983)
79-0078	VECTOR, IOS (Ocean Ecology)	July 4-11	Temperature Salinity	Guildline 8701 CTD	±.003,.01C° ±.005,.01°/oo	3	Offshore Vancouver Island	Fluorescence, plankton, NO_3, PO_4, O_2, SiO_3, Chl.a, benthos	Hill et al. (1982a)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
79-0079	VECTOR, IOS (Ocean Ecology)	Aug. 22-29	Temperature Salinity	Guildline 8701 CTD	±.003,.01C° ±.005,.01°/oo	3	Alberni Inlet, Offshore Vancouver Island	Fluorescence, plankton, NO_3, PO_4, O_2, SiO_3, Chl.a, benthos	Hill et al. (1982a)
79-0080	VECTOR, UBC	Feb. 17-Mar. 7	Temperature Salinity	Rev. therm. Salinometer	[±.02, .03C°] ±.003,[.02]°/oo	3	Rupert Inlet	O_2	IOUBC (1980)
79-0081A	RIVTOW VIKING, Seakem Ocean. for IOS	Apr. 29-May 3	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Vancouver Island	NO_3, NO_2, PO_4, Chl.a, plankton	Borstad et al. (1980)
79-0081B	RIVTOW VIKING, Seakem Ocean. for IOS	May 25-29	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Vancouver Island	NO_3, NO_2, PO_4, Chl.a, plankton	Borstad et al. (1980)
79-0081C	RIVTOW VIKING, Seakem Ocean. for IOS	July 9-12	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Vancouver Island	NO_3, NO_2, PO_4, Chl.a, plankton	Borstad et al. (1980)
79-0081D	RIVTOW VIKING, Seakem Ocean. for IOS	Aug. 10-17	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Vancouver Island	NO_3, NO_2, PO_4, Chl.a, plankton	Borstad et al. (1980)
79-0081E	RIVTOW VIKING, Seakem Ocean. for IOS	Sept. 8-11	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Vancouver Island	NO_3, NO_2, PO_4, Chl.a, plankton	Borstad et al. (1980)
79-0081F	RIVTOW VIKING, Seakem Ocean. for IOS	Oct. 20-30	Temperature (surface) Salinity (surface)	Engine intake thermometer Salinometer	? [±.01,.02°/oo]	3	Offshore Vancouver Island	NO_3, NO_2, PO_4, Chl.a, plankton	Borstad et al. (1979)
80-0056	PARIZEAU, IOS (Tides & Currents, Offshore Oceanography), CODE	Jan. 14-27 Jan.22-May 2 Jan. 19-Sept. 15	Temperature Salinity Current Water level	Guildline 8701 CTD Aanderaa RCM4 CMDR Geodyne 750A, AM12 TG2A	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ ? ? [±.001,.01% full scale range]	3	Offshore Vancouver Island	O_2	Thomson, Crawford & Huggett (1984b)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
80-0057	PARIZEAU, IOS (Coastal Zone), CODE	Feb. 8-13 Feb.10-July 26	Temperature Salinity Current	Guildline 8700 MK II CTD Aanderaa RCM4	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @	3	Alberni Inlet, Nootka Sound, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
80-0058	PARIZEAU, IOS (Coastal Zone), CODE	Apr. 21-25 Apr. 25-July 26	Temperature Salinity Current	Guildline 8700 MK II CTD Aanderaa RCM4	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @	3	Alberni Inlet, Offshore Vancouver Island	O_2?	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
80-0059	PARIZEAU, IOS (Offshore Oceanography, Tides & Currents), CODE	Apr. 30-May 16 May 7-Sept. 15 May 7-Sept. 15	Temperature Salinity Current Water level Micro-structure (temperature, velocity)	Guildline 8701 CTD Aanderaa RCM4 CMDR, Geodyne AM12, 750A TG2A, Ott Camel II	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ ? [±.001,.1% full scale range] ±?,.1C°	3	Offshore Vancouver Island	O_2, SiO_4, NO_3, PO_4, (Ocean Ecology), biological wood borers (POG)	Thomson, Crawford & Huggett (1984b) Lueck, Crawford & Osborn (1983)
80-0060	PARIZEAU, IOS (Coastal Zone), CODE	June 12-14 June 13-Oct. 22 June-Sept. 20	Temperature Salinity Current	Guildline 8700 MK II CTD Aanderaa RCM4 Cyclesonde (UBC) Kaijo profiling CM	[±.005,.[illegible]°] [±.005,.02°/oo] ±1cm/s or 2% speed @ ? ?	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
80-0061	VECTOR, IOS (Ocean Ecology)	June 4-8	Temperature Salinity	Guildline 8701 CTD	±.003,.01C° ±.005,.02°/oo	3	Offshore Vancouver Island	O_2, plankton, Chl.a, NO_3, PO_4, SiO_3	Hill et al. (1982b)
80-0062	VECTOR, IOS (Ocean Ecology)	July 29-Aug. 7	Temperature Salinity Drift	Guildline 8701 CTD Drogues	±.003,.01C° ±.005,.02°/oo	3	Offshore Vancouver Island	O_2, plankton, Chl.a, NO_3, PO_4, SiO_3	Hill et al. (1982b)
80-0063	PARIZEAU, IOS (Coastal Zone), CODE	Sept. 18-25 Sept.19/80-Feb. 4/81 Sept. 1-continuing	Temperature Salinity Current Water level?	Guildline 8700 MK II CTD Aanderaa RCM4 AM12, Ott	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ [±.001,.01% full scale range]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
80-0064	VECTOR, IOS (Coastal Zone), CODE	Oct. 22-24	Temperature Salinity	Guildline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
		Oct.22,1980-Feb. 9,1981	Current	Aanderaa RCM4	±1cm/s or 2% speed @				
80-0065A	ENDEAVOUR, IOS (Coastal Zone), CODE	July 25-27	Temperature Salinity	Guildline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983)
		July 24-Nov. 25	Current	Aanderaa RCM4	±1cm/s or 2% speed @				
80-0065B	ENDEAVOUR, IOS (Tides & Currents, Offshore Oceanography), CODE	July 22-30	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Offshore Vancouver Island	O_2	Thomson, Crawford & & Huggett (1984c)
80-0066	VECTOR, IOS (Coastal Zone)	Aug. 12	Temperature Salinity	Guildline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet	O_2	Lee & Stucchi (1983)
80-0067	VECTOR, IOS (Coastal Zone), CODE	Nov. 24-27	Temperature Salinity	Guildline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
		Nov.26,1980-Mar.12,1981	Current	Aanderaa RCM4	±1cm/s or 2% speed @				
		Nov.26,1980-May 27,1981	Water level	AML 750A	[±.001,.01% full scale range]				
80-0068	Dobrocky Seatech, IOS	Nov. 21-26	Temperature Salinity	Guildline 8705 CTD	[±.005,.01C°] [±.005,.02°/oo]	0	Alberni Inlet		Narayanan (1981)
			Current profile	Marsh-McBirney 515M EM	±2% speed	3			
		Nov. 19-28	Current	Aanderaa RCM4	+1cm/s or 2% speed @	3			
		Nov. 19-28	Water level	TG3A, TG4A	[±.001,.01% full scale range]	3			
80-0070	PARIZEAU, IOS (Tides & Currents, Offshore Oceanography), CODE	Sept. 3-18	Temperature Salinity Water level	Guildline 8701 CTD 750A	[±.005,.01C°] [±.005,.02°/oo] [±.001,.01% full scale range]	3	Offshore Vancouver Island, Barkley Sound	O_2	Thomson, Crawford & & Huggett (1984c)
80-0072	VECTOR, UBC	July 5-7	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Rupert Inlet, Holberg Inlet, Neroutsos Inlet	O_2	IOUBC (1981)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
80-0088A	EPS	June	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alberni Inlet	O_2, bottom sediment, benthos	Sullivan (1981)
80-0092	PANDORA II, IOS (Coastal Zone), CODE	Mar. 25-26	Temperature Salinity	Guildline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee, Stucchi, & Freeland (1984)
80-0093	VECTOR, IOS (Coastal Zone), CODE	Aug. 13-14	Temperature Salinity	Guildline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee, Stucchi, & Freeland (1984)
80-0094	CHS	July 1/80-Aug. 31/84	Water level	Ott	±?,.01 m	3	Muchalat Inlet		MEDS WL Stn. #8650
80-0102	CHS	Sept. 18-Dec. 31	Water level	Ott Ottboro	±?,.01 m ±?,.03 m	3	Zeballos Inlet, Tahsis Inlet		MEDS WL stn. #8658, 8670
81-0055	ENDEAVOUR, IOS (Tides & Currents)	Feb. 5-Sept. 12	Water level	TG3A	[±.001,.01% full scale range]	3	Langara Island (Dixon Entrance)		Stephenson (pers. comm.)
81-0069	PARIZEAU, IOS (Coastal Zone, Tides & Currents) SUPERCODE	Sept.4-7 Sept.4,1981-Feb. 3,1982	Temperature Salinity Current Water level	Guildline 8700 MK II CTD Aanderaa RCM4 750A	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ [±.001,.01% full scale range]	3	Alberni Inlet, Offshore Vancouver Island & Queen Charlottes		Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
81-0070	PARIZEAU, IOS (Coastal Zone), CODE	Feb. 2-13 Feb.10-June 7 Feb. 7-June 14	Temperature Salinity Current Water level	Guildline 8700 MK II CTD Aanderaa RCM4 TG4A	[±.005,.01C°] ±.005,.02°/oo] ±1cm/s or 2% speed @ [±.001,.01% full scale range]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
81-0071	VECTOR, IOS (Ocean Chemistry)	Apr. 27-May 1	Temperature Salinity	Rev. therm. Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Rupert Inlet, Holberg Inlet, Quatsino Sound	O_2, nutrients, Chl.a, arsenic, sediment	Thompson (pers. comm.)
81-0072	PARIZEAU, IOS (Ocean Ecology)	Sept. 15-18	Temperature Salinity	Guildline 8701 CTD	±.003,.01C° ±.005,.01°/oo	3	Offshore Vancouver Island	Plankton, O_2, Chl.a, PO_4, NO_3, SiO_3, benthos	Hill et al. (1983)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
81-0073	VECTOR, IOS (Coastal Zone), CODE	Jan. 6-7	Temperature Salinity	Guildline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
81-0074	VECTOR, IOS (Coastal Zone), CODE	Mar. 10-11 Mar. 12-Aug. 13	Temperature Salinity Current	Guildline 8700 MK II CTD Aanderaa RCM4	[±.005,.01C°] [±.005,.02°/oo] ±1 cm/s or 2% speed @	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
81-0075	PARIZEAU, IOS (Coastal Zone), CODE	Apr. 21-22	Temperature Salinity	Guildline 8700 MK II CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
81-0076	PARIZEAU, IOS (Coastal Zone), CODE	June 2-10 June 10-Sept. 2	Temperature Salinity Water level Current	Guildline 8700 CTD AM12 Anderaa RCM4	[±.005,.01C°] [±.005,.02°/oo] [±.001,.01% full scale range] ±1cm/s or 2% speed @	3	Alberni Inlet, Offshore Vancouver Island	O_2	Lee & Stucchi (1983) Lee, Stucchi & Freeland (1984)
81-0077	PARIZEAU, IOS (Ocean Ecology)	Apr. 29-May 8	Temperature Salinity	Guildline 8701 CTD	±.003,.01C° ±.005,.02°/oo	3	Offshore Vancouver Island	Plankton, O_2, Chl.a, PO_4, NO_3, SiO_3, benthos	Hill et al. (1983)
81-0078	PARIZEAU, IOS	Aug. 18-28	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Offshore Vancouver Island	O_2?	
81-0079	PARIZEAU, IOS	Oct. 20-27	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Offshore Vancouver Island	O_2?	
81-0095	EPS	Sept. 21	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Rupert Inlet, Quatsino Sound	Transmissivity, trace metals, benthos, sediment	Goyette (pers. comm.)
81-0096	CHS	May 21,1981-May 16,1982	Water level	750A	[±.001,.01% full scale range]	3	Effingham Bay		Stephenson (pers. comm.)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
82-0034	PARIZEAU, IOS, SUPERCODE	Jan. 18-July	Current	Aanderaa RCM4	±1cm/s or 2% speed @	3	B.C. Offshore		Freeland, Crawford & Thomson (1984)
82-0046	PARIZEAU, IOS, SUPERCODE	Apr. 21-Oct.	Current Water level	Aanderaa RCM4 ?	+1cm/s or 2% speed @ [±.001,.01% full scale range]	3	B.C. Offshore		Freeland, Crawford & Thomson (1984)
82-0065	EPS	Apr. 25-26	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Tasu Sound	Transmissivity, trace metals, sediment, benthos	Goyette (pers. comm.)
82-0070	ENDEAVOUR, IOS (Offshore Oceanography)	Jan. 18-29	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore	Plankton, Chl.a, nutrients	Thomson (pers. comm.)
82-0071	PARIZEAU, IOS (Offshore Oceanography)	May 3-14	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore	Plankton, Chl.a, CO_2, alkalinity, tritium	Thomson (pers. comm.)
82-0072	PARIZEAU, IOS (Offshore Oceanography)	July 12-22	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore	O_2	Thomson (pers. comm.)
82-0073	PARIZEAU, IOS (Offshore Chemistry)	Sept. 16-30	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore	O_2	Thomson (pers. comm.)
82-0074	ENDEAVOUR, IOS	Mar. 15-26	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore	O_2?	Thomson (pers. comm.)
82-0075	ENDEAVOUR, IOS	Nov. 24-Dec. 5	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore	O_2?	Thomson (pers. comm.)
82-0091	PENDER, RICHARDSON, CHS	Aug. 17-Oct. 7	Water level	Ottboro	±?,.03 m	3	Quatsino Sound, Holberg Inlet		Richardson (1982) Crowley (1982) MEDS WL Stn. #8752
83-0002A	ENDEAVOUR, IOS (Ocean Ecology)	June 30-July 3	Temperature Salinity	Guildline 8701 CTD	±.003,.01C°@ ±.005,.02°/oo	3	Offshore Vancouver Island	Chl.a, C^{14}, NO_2, PO_4, pH, SiO_3, NO_3, plankton, light intensity	Denman et al. (1985) Forbes, Sefton & de Macedo (1983)

Table 2 (Cont'd): Summary listing of data sets.

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
83-0002B	ENDEAVOUR, IOS (Offshore Oceanography)	July 10-16	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore		Thomson (pers. comm.)
83-0003B	VECTOR, EPS	July 5-7	Temperature Salinity	Plessey 9400 CTD	±.001,.02C°@ ±.001,.03°/oo@	3	Rupert/Holberg inlet system	Benthos, transmissivity, NO_3, PO_4, biota, bottom sediment	Goyette (pers. comm.)
83-0035	PARIZEAU, IOS (Tides & Currents, Offshore Oceanography), NCODE I	May 4-20 May-Oct. May 5,1983-Oct. 29,1984	Temperature Salinity Current Water level	Guildline 8701 CTD Aanderaa, GeoM WLR5, 750A	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ [±.001,.01% full scale range]	3	Offshore Vancouver Island & the Queen Charlottes		Thomson (pers. comm.)
83-0036A	PARIZEAU, IOS (Offshore Oceanography), NCODE II	Sept. 8-16 Sept.11/83-Sept.12/84	Temperature Salinity Current Water level	Guildline 8701 CTD Aanderaa RCM4 WLR5	[±.005,.01C°] [±.005,.02°/oo] ±1cm/s or 2% speed @ [±.001,.01% full scale range]	3	Offshore Queen Charlottes		Thomson (pers. comm.)
83-0040	ENDEAVOUR, IOS (Ocean Chemistry)	Mar. 16-30	Temperature Salinity	?CTD ?CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore	O_2	Thomson (pers. comm.)
83-0041	PARIZEAU, IOS (Offshore Oceanography)	Aug. 16-27 Aug. 24-Oct. 31	Temperature Salinity Drift	Guildline 8701 CTD Hermes satellite drifters	[±.005,.01C°] [±.005,.02°/oo] ?	3	Offshore Vancouver Island	O_2, plankton	Thomson (pers. comm.)
83-0043	EPS	June 2	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Port Alberni	Transmissivity, benthos, trace metals	Goyette (pers. comm.)
83-0045	RICHARDSON, CHS	May 22-June 10	Water level	Ottboro	±?,.03 m	3	Quatsino Sound		Crowley (1983) MEDS WL Stn. #8736
84-0001	PARIZEAU, IOS (Offshore Oceanography, Tides & Currents)	Jan. 22-24	Temperature Salinity Water level	Guildline 8701 CTD TG12	[±.005,.01C°] [±.005,.02°/oo] [±.001,.01% full scale range]	3	Offshore Queen Charlottes		Thomson (pers. comm.)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
84-0002	PARIZEAU, IOS (Offshore Oceanography, Tides & Currents), NCODE III	Apr. 19-25 Apr. 19-Oct. 16	Temperature Salinity Water level Current	Guildline 8701 CTD WLR5, TG3A, TG12 Aanderaa RCM4	[±.005,.01C°] [±.005,.02°/oo] [±.001,.01% full scale range] ±1cm/s or 2% speed @	3	Offshore Queen Charlottes		Thomson (pers. comm.)
84-0007	PARIZEAU, IOS (Offshore Oceanography), NCODE IV	Oct. 14-31 Oct. 1984-May 1985	Temperature Salinity Water level Current	Guildline 8701 CTD AAND, AML Aanderaa RCM4	[±.005,.01C°] [±.005,.02°/oo] [±.001,.01% full scale range] ±1cm/s or 2% speed @	3	B.C. Offshore	O_2	Thomson (pers. comm.)
84-0008	PARIZEAU, IOS (Ocean Chemistry)	Apr. 26-May 4	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Offshore Vancouver Island	O_2	Tabata (pers. comm.)
84-0009	PANDORA, IOS	July 23-27	Temperature Salinity	?CTD ?CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Offshore Vancouver Island		Thomson (pers. comm.)
84-0010	PARIZEAU, IOS	Nov. 7-22	Temperature Salinity	Guildine 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	B.C. Offshore	O_2?	Thomson (pers. comm.)
84-0011	PARIZEAU, IOS	June 19-28 June 20-Oct. 30	Temperature Salinity Water level	Guildline 8701 CTD WLR5, TG3A	[±.005,.01C°] [±.005,.02°/oo] [±.001,.01% full scale range]	3	Offshore Vancouver Island		Thomson (pers. comm.)
84-0012	CHS	Jan. 1-Mar. 31	Water level	Hagenuk	±?,.1 m	3	Langara Point (Dixon Entrance)		MEDS WL Stn. #9964
84-0013	RICHARDSON, CHS	Aug. 17-Sept. 28	Water level	Ottboro	±?,.03 m	3	W. Queen Charlottes (Skidegate Channel)		Crowley (1984) MEDS WL Stn. #9605, 9620
84-0022	READY, Coast Guard, IOS, Seaconsult	July 21-Aug. 28	Drift	Satellite-tracked drifters	?	3	Offshore Vancouver Island		Seaconsult (1984)
85-0001	Coast Guard, IOS, Seaconsult	Jan. 5-June 30	Drift	Satellite-tracked drifters	?	3	Offshore Vancouver Island		Thomson (pers. comm.)

9. MAPS

This section contains maps showing the yearly distribution of temperature, salinity, current, water-level, wave, and surface-drift measurements. One overall map and up to three additional sub-maps are used (Figure 20). All are Lambert Conformal Conic projection, with maps 1 through 4 having scales 1:6.085, :2.33, :0.315 and :0.22 million, respectively.

Generally, temperature-salinity and any water-level stations are plotted together. If there were also current-meter data, then the first map will have only temperature-salinity, and the current and water-level data will be displayed on a second map. Wave data have usually been plotted with current and/or water-level data. The overall map generally contains all the stations; the sub-maps provide more detail and several may be used to display station positions in one area.

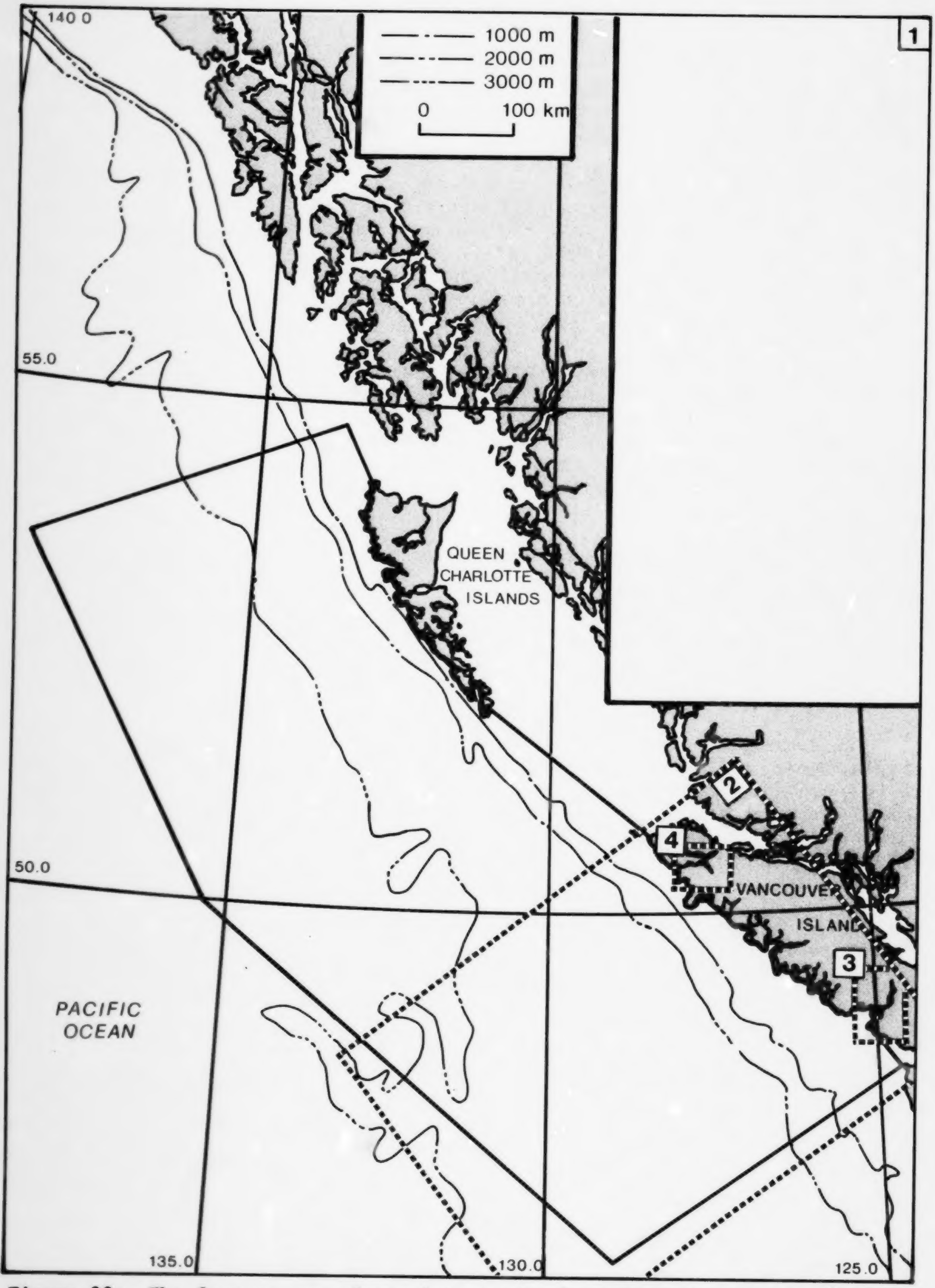
For some data sets, exact locations are not known. A "?" on the first map is used to indicate the general area, if known.

Some stations plot on land. Wherever possible, the original data source was checked. In most cases, the location is as originally recorded. We have not attempted to guess where the station was actually located, since this may only compound the error.

The legend indicates the following data types:

CM - current-meter data
DRF - drifter data
TS - temperature-salinity data
WL - water-level data
WAVE - wave data

The coastlines have been smoothed and small islands removed. A minimum displacement of 0.05 inch is required for a new station to be plotted, to avoid overlap. Vessel/agencies in the legend are abbreviations. Note that cruise station symbols may be different on two different maps.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2
4
VANCOUVER ISLAND
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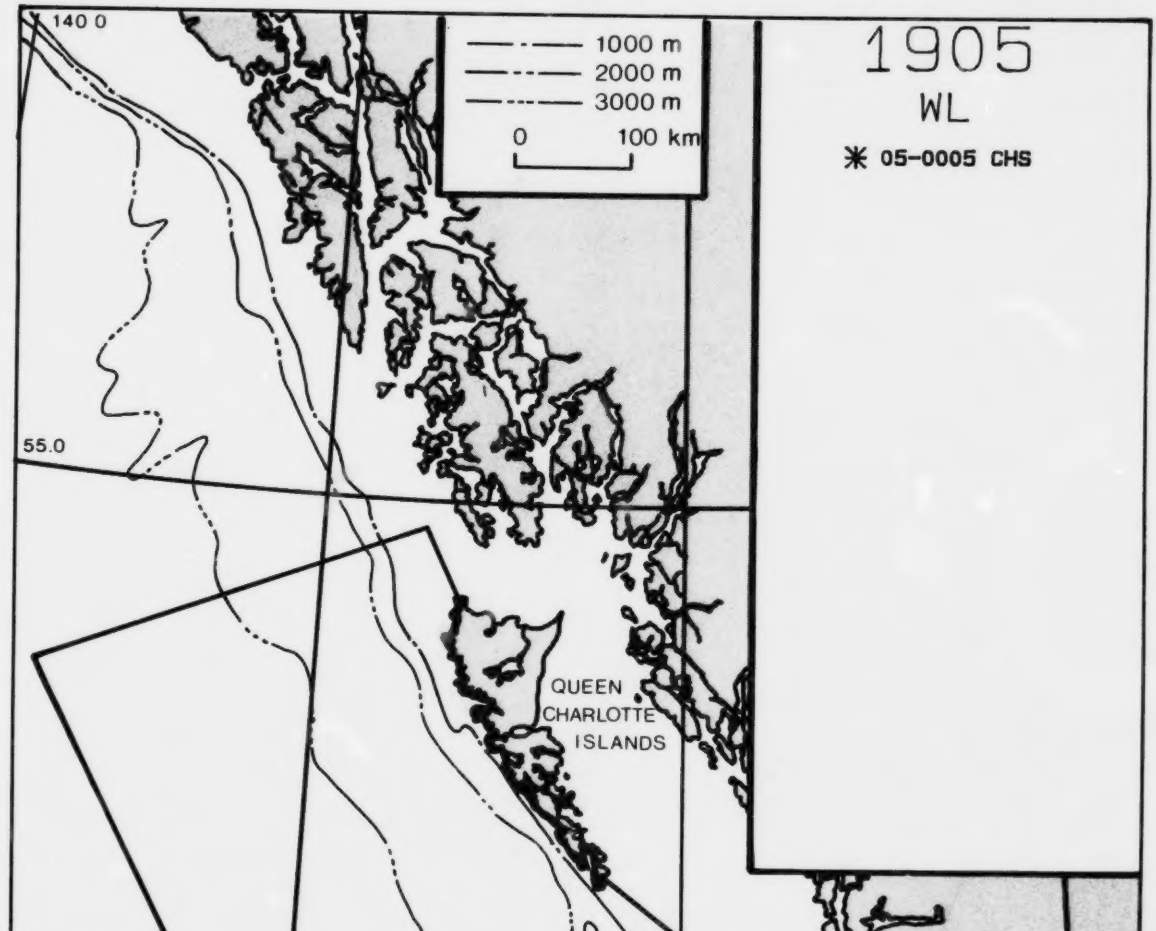
PACIFIC OCEAN
135.0
130.0
125.0

Figure 20: The four maps used to plot station locations are indicated above. All are Lambert Conformal Conic projection.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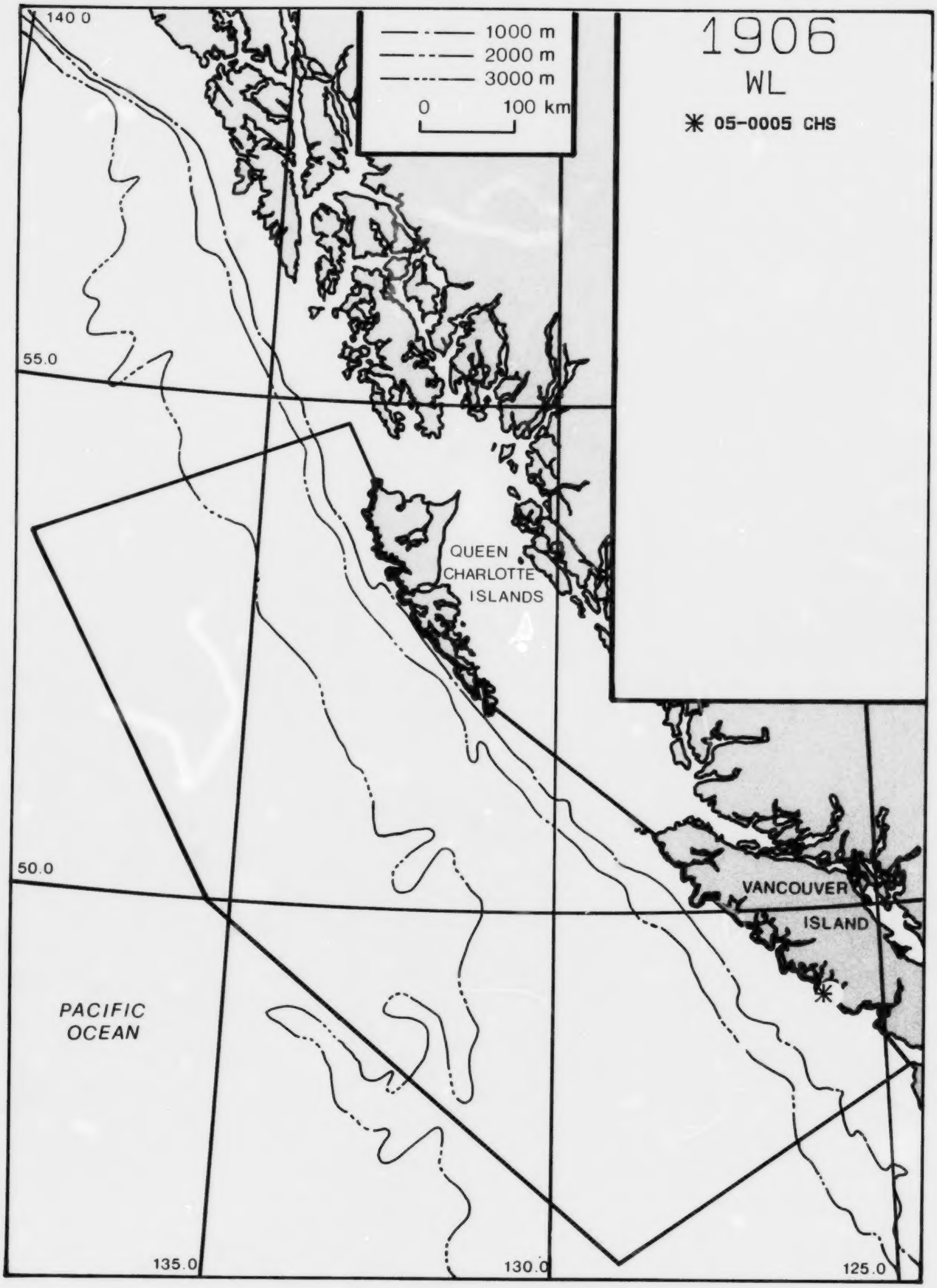
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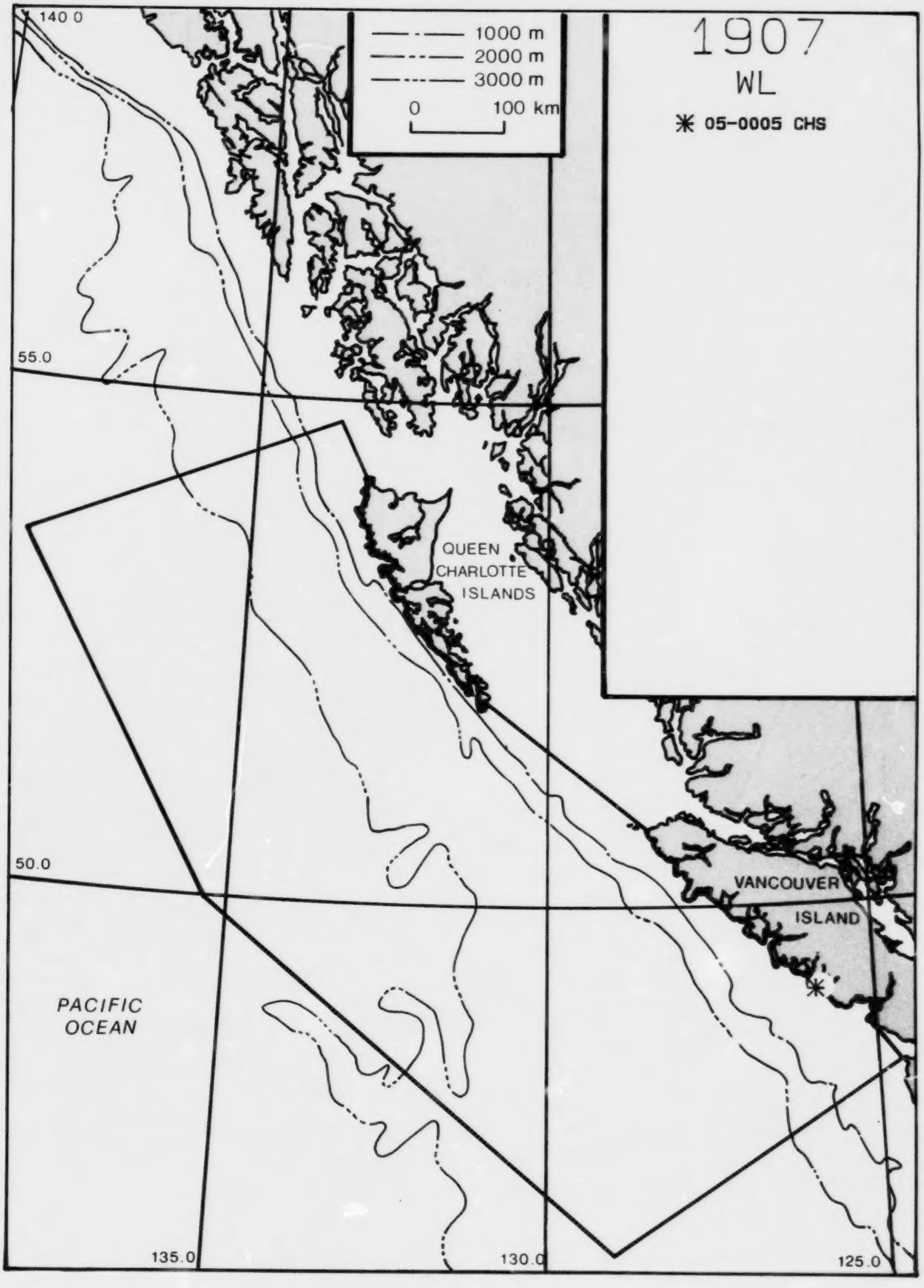
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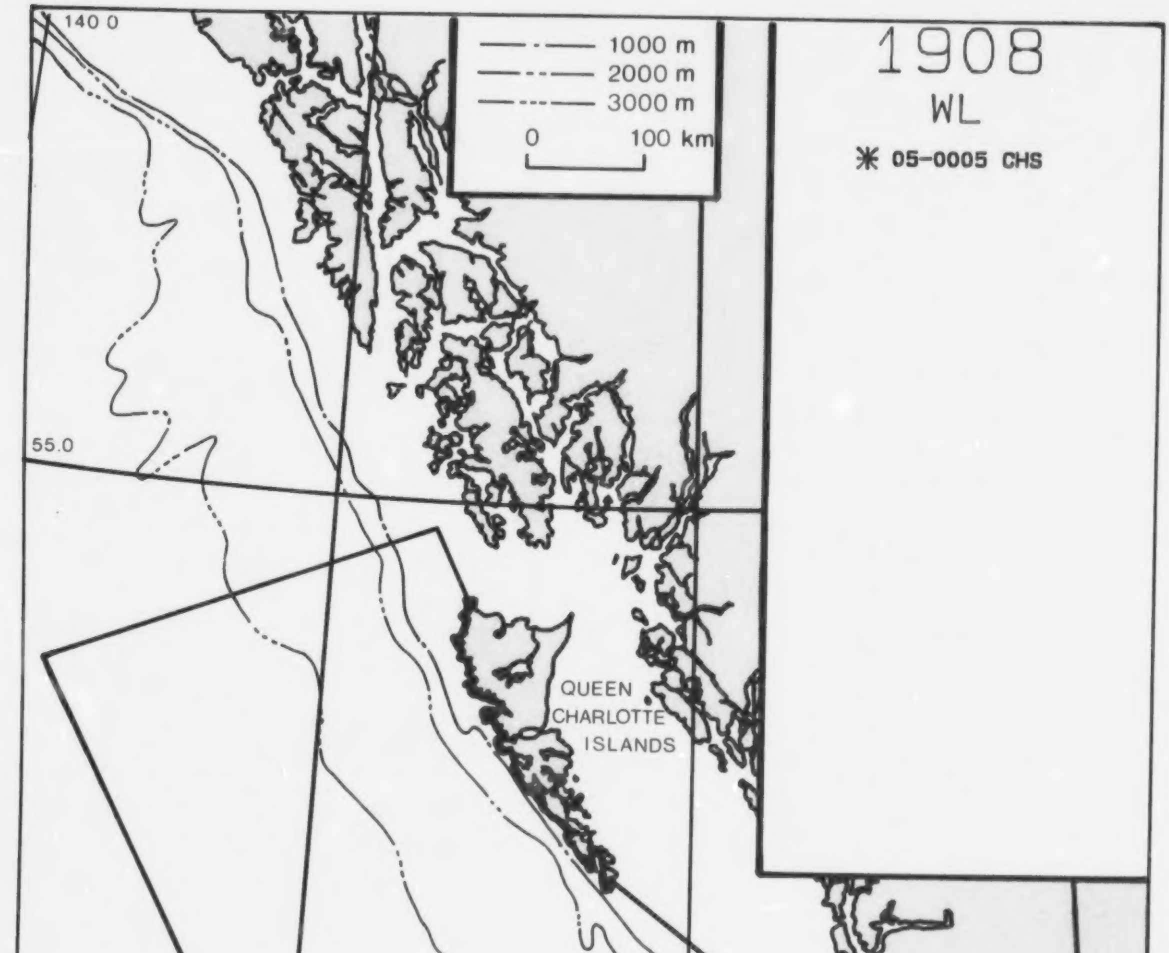
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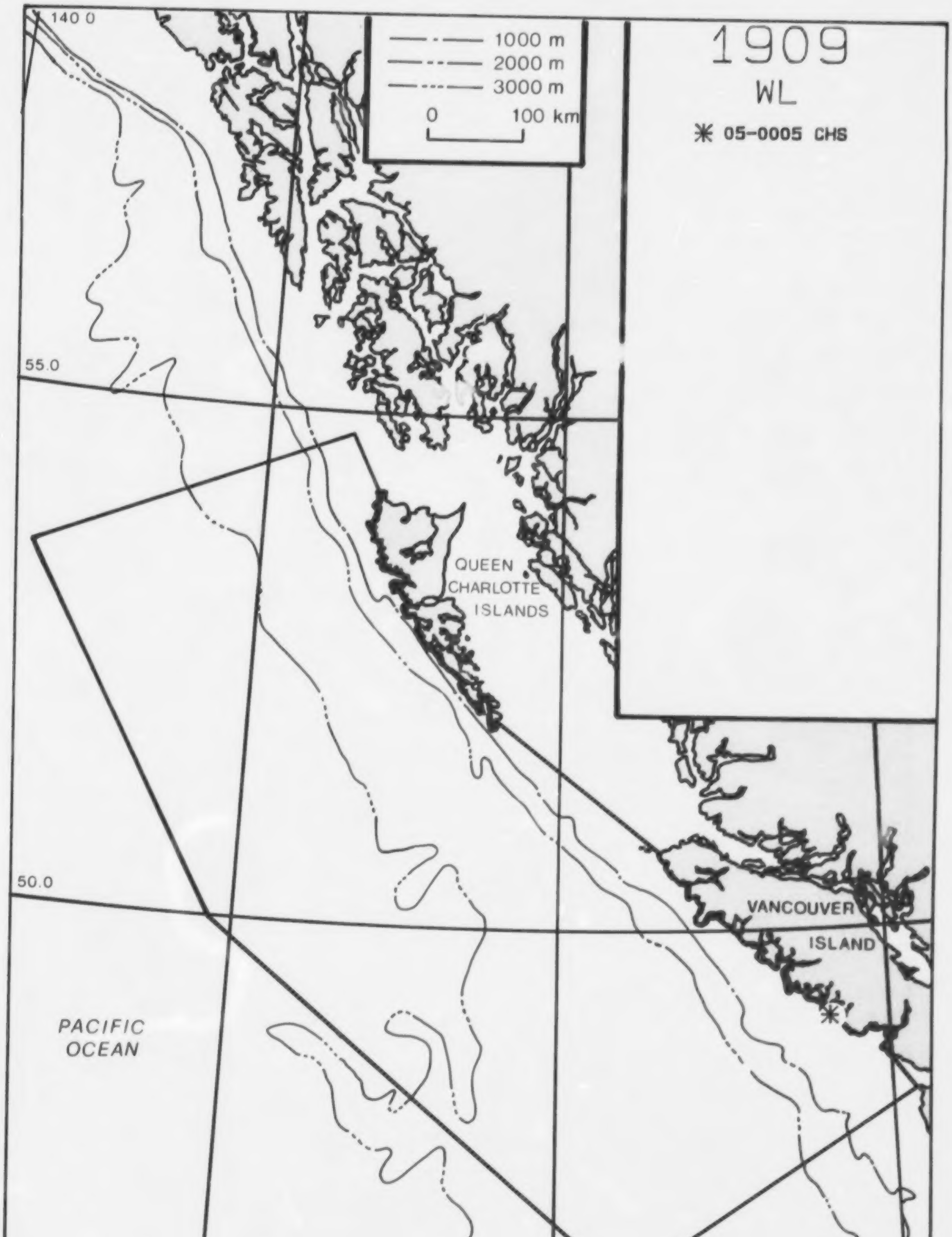
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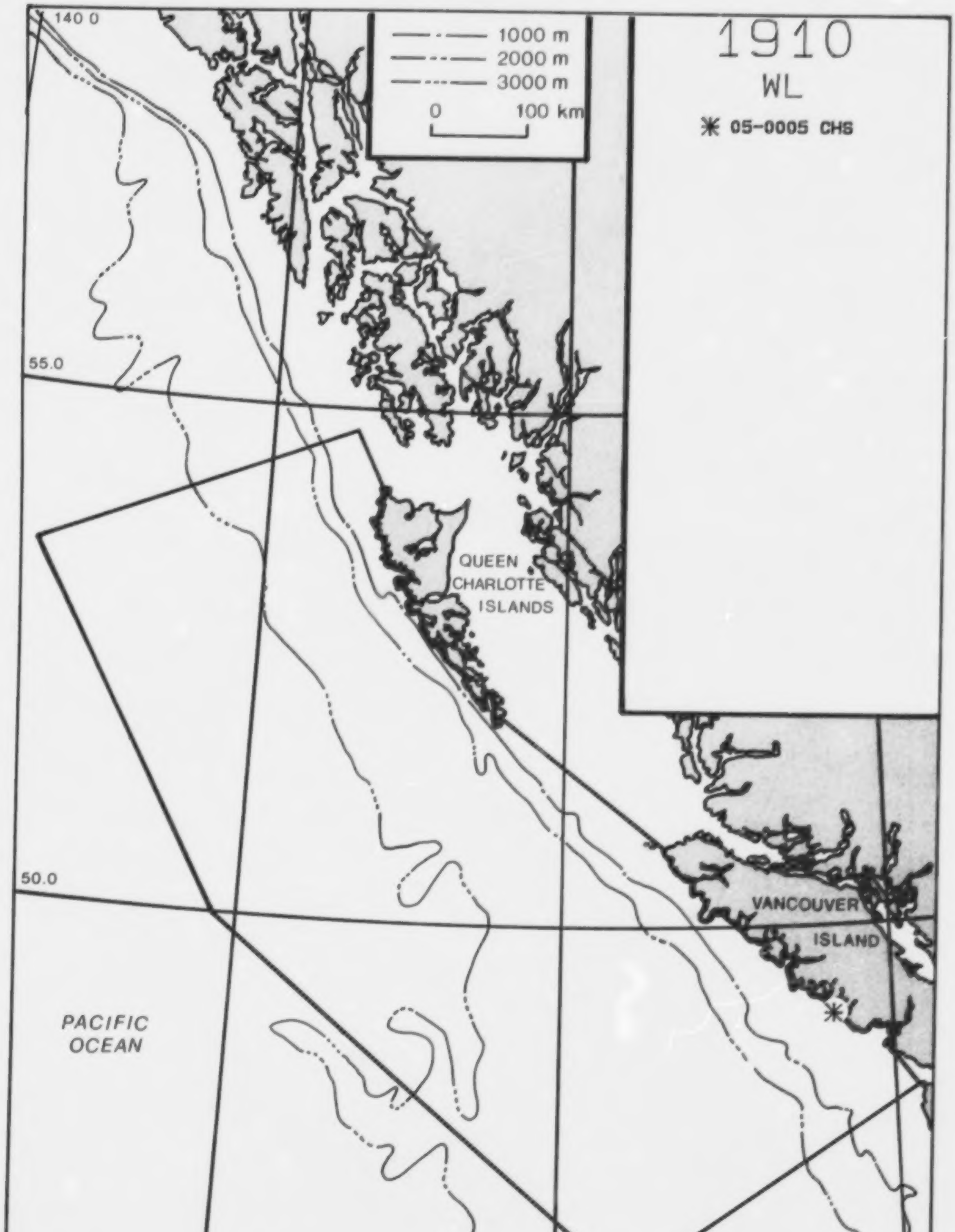
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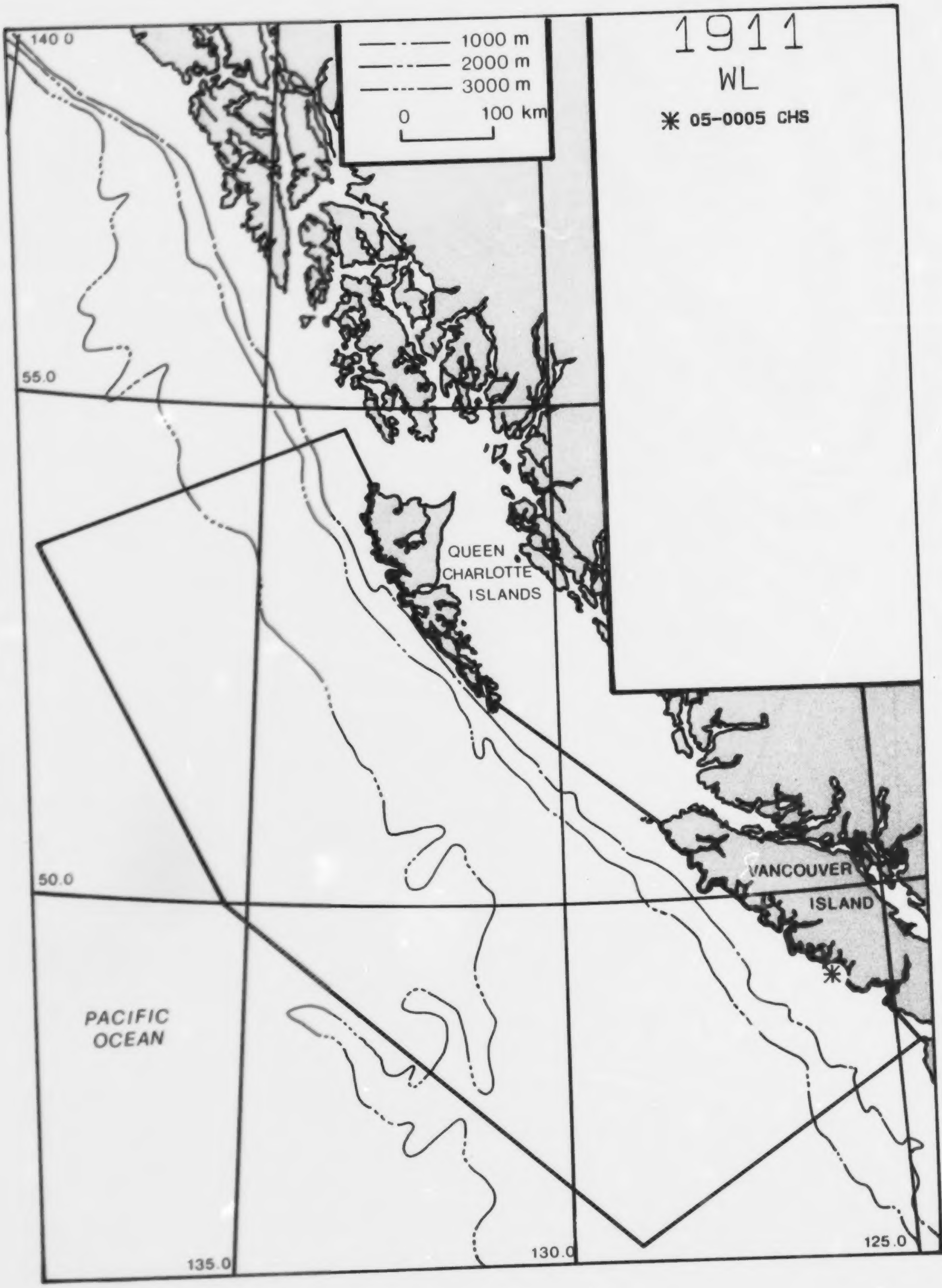
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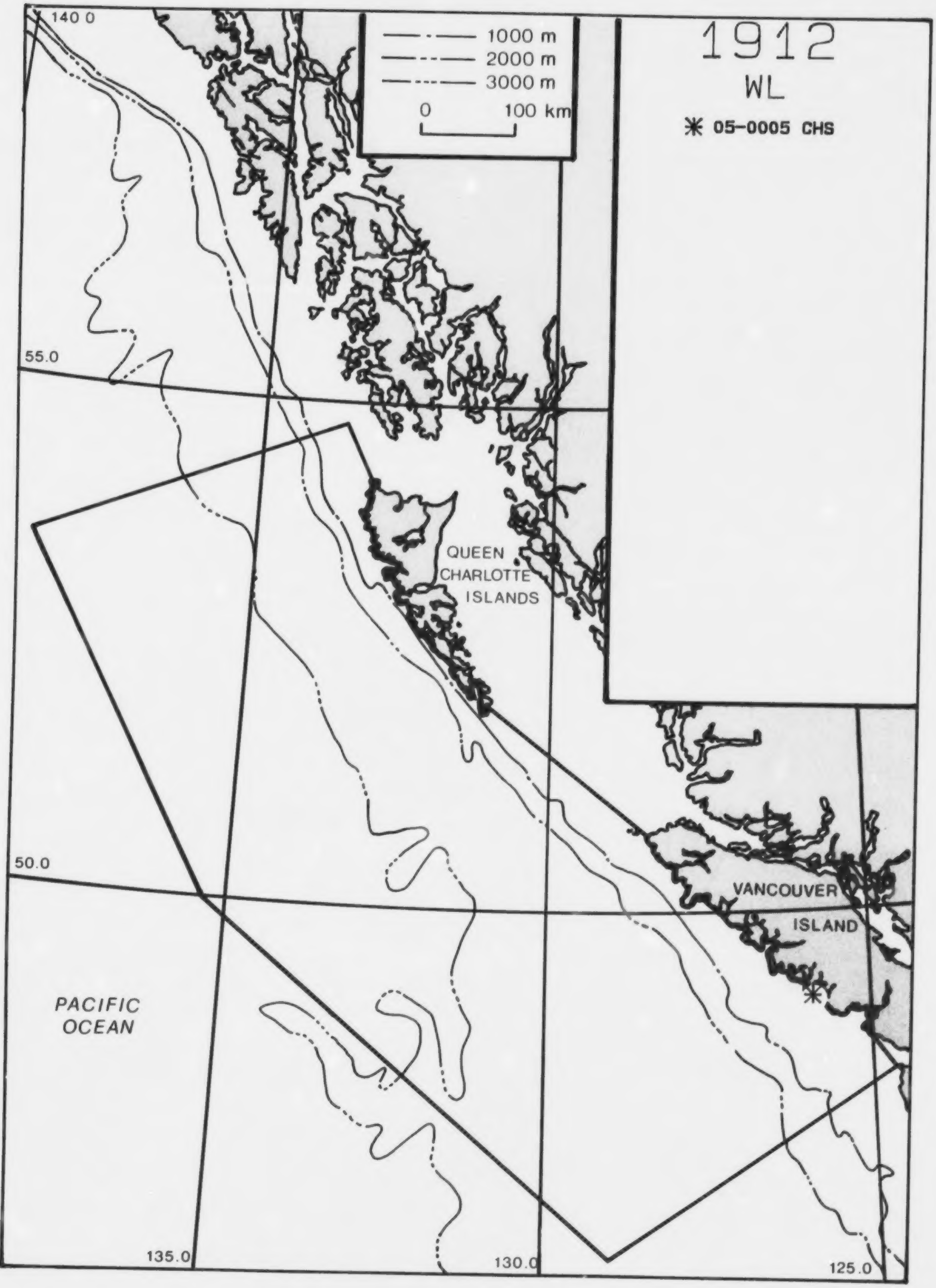
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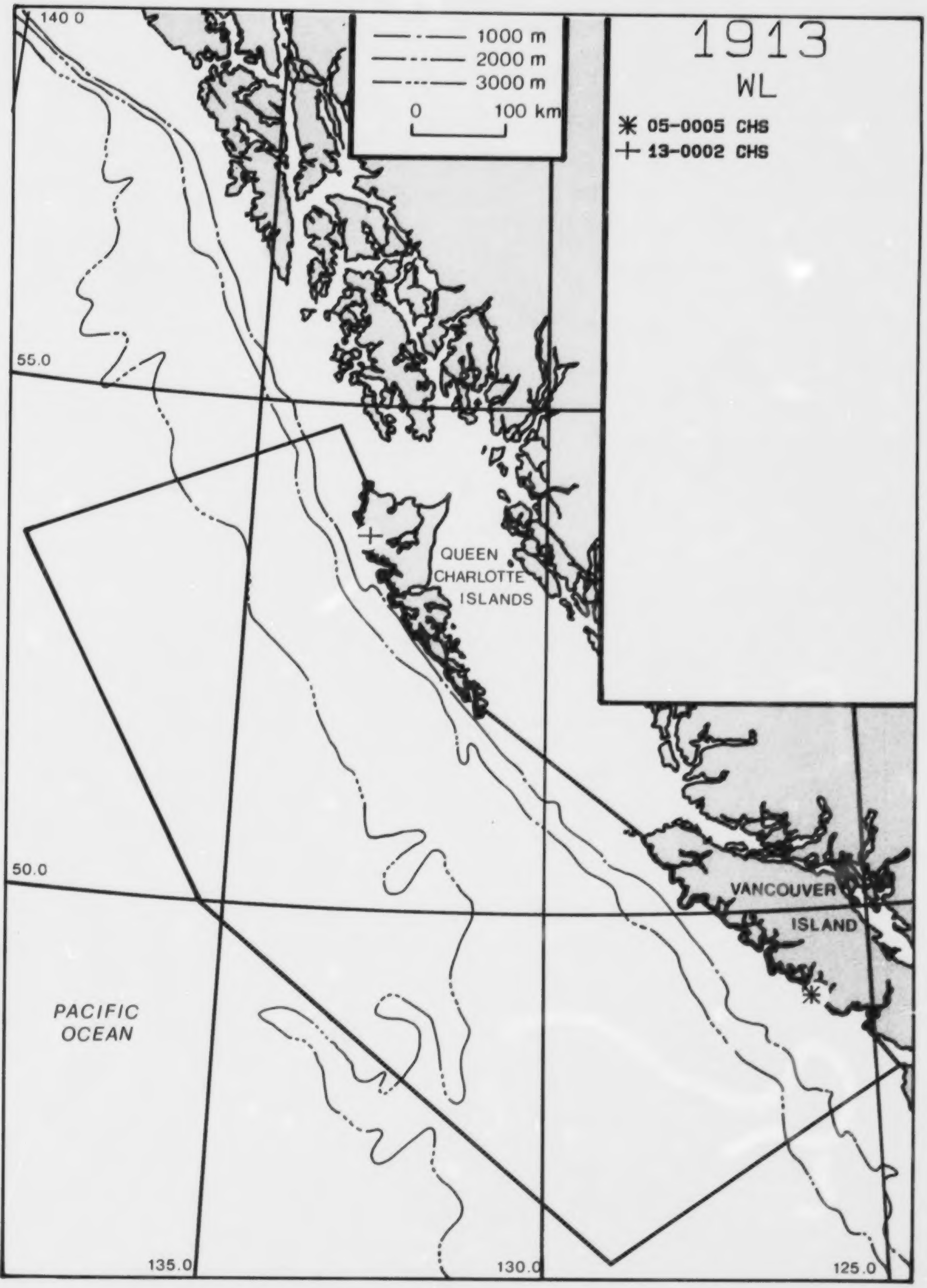
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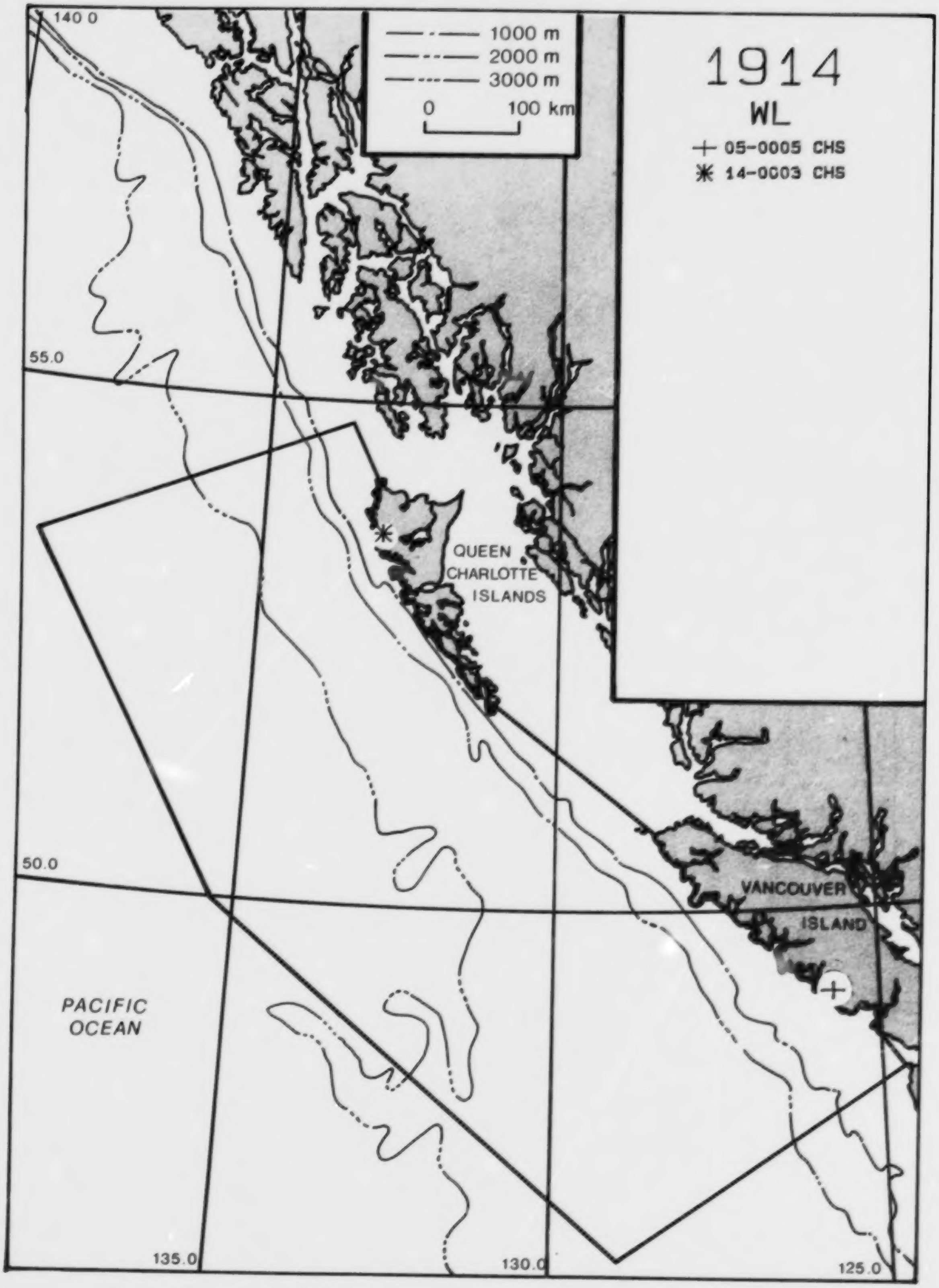
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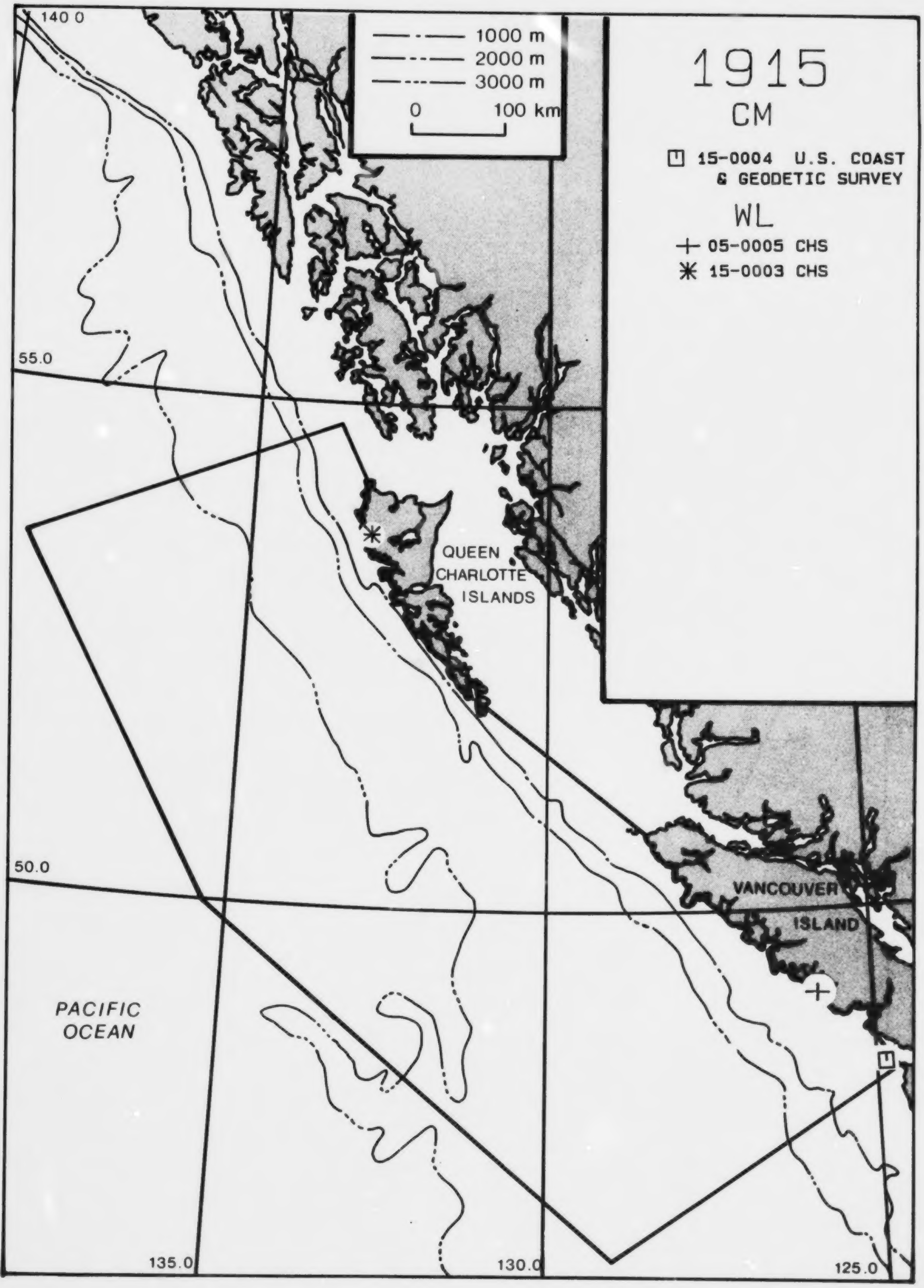
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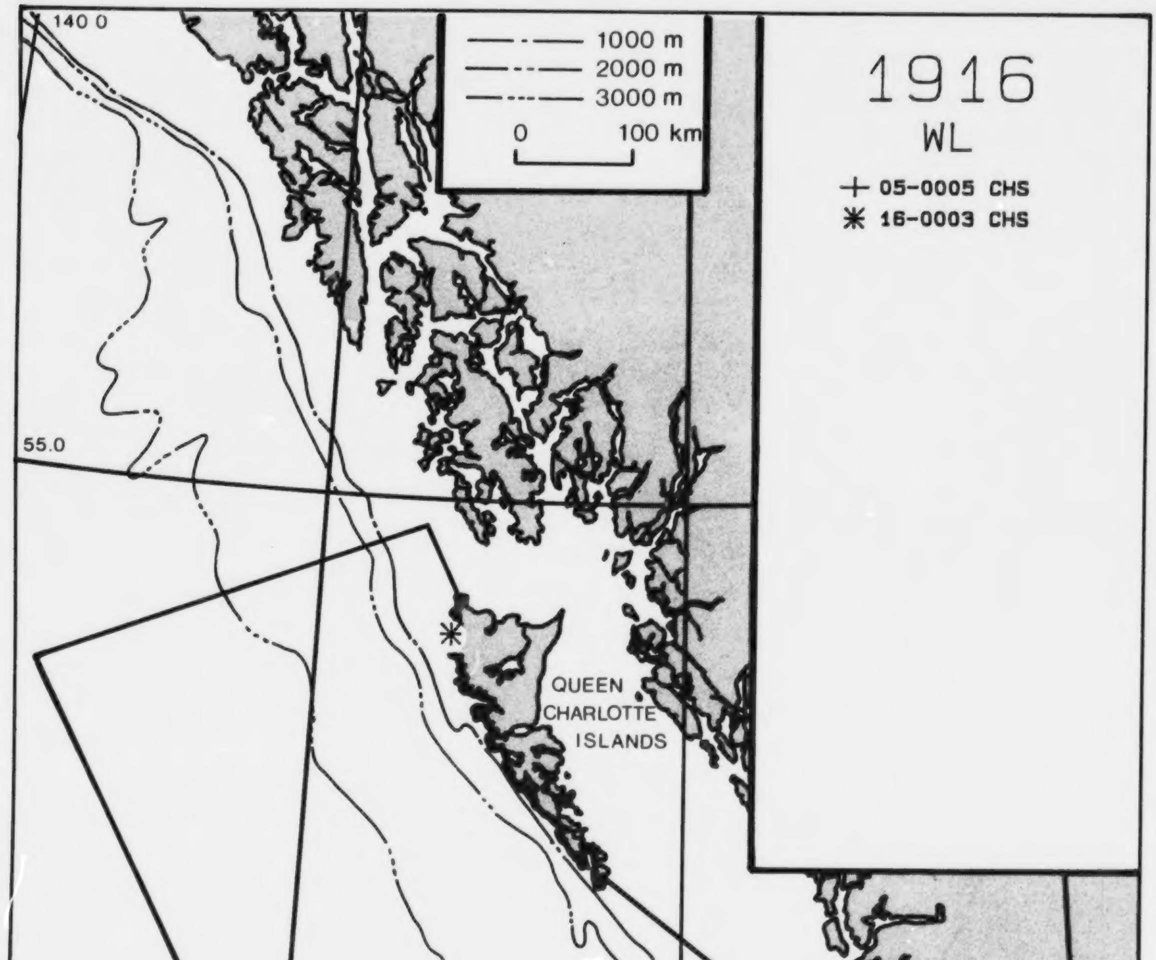
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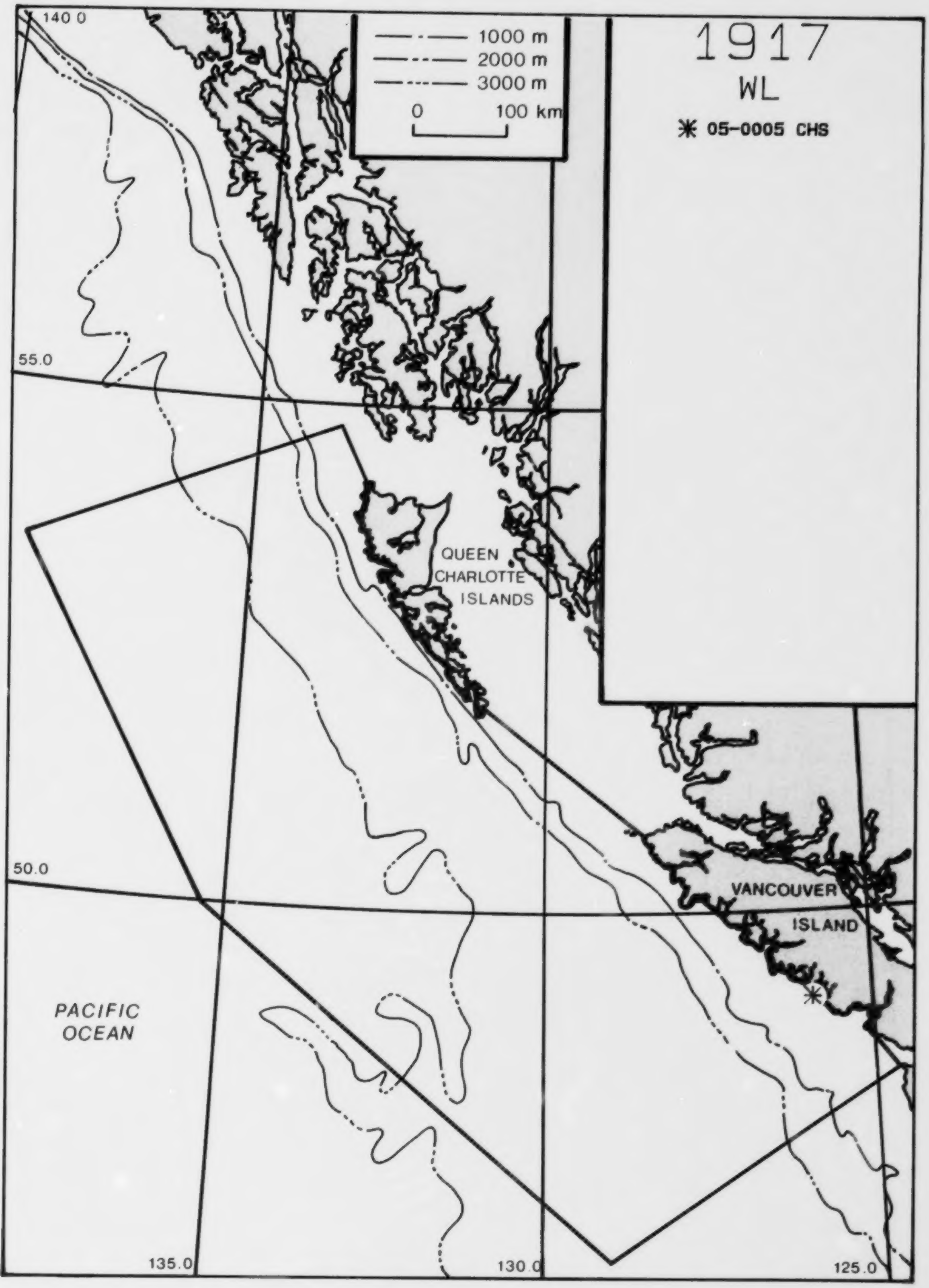

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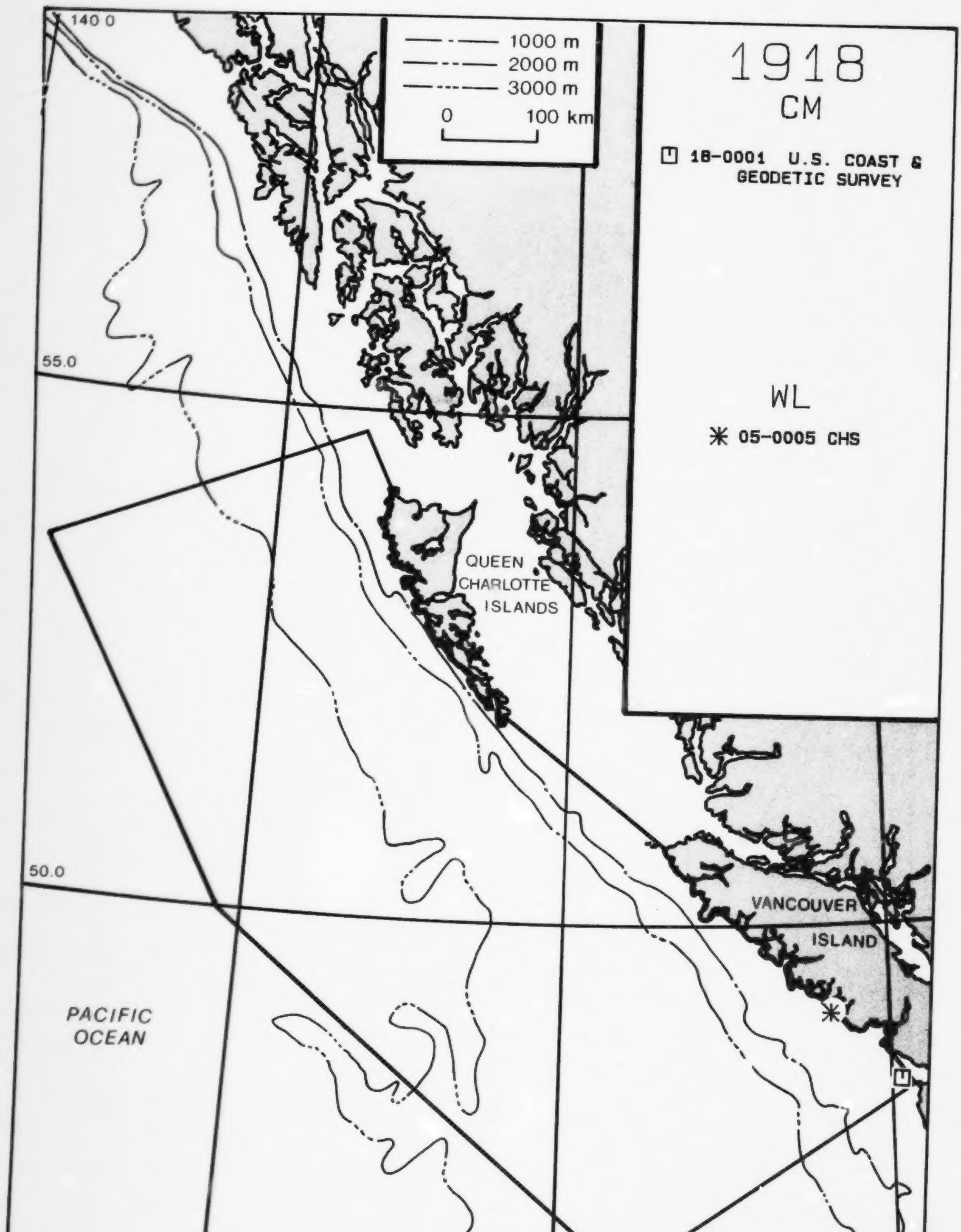
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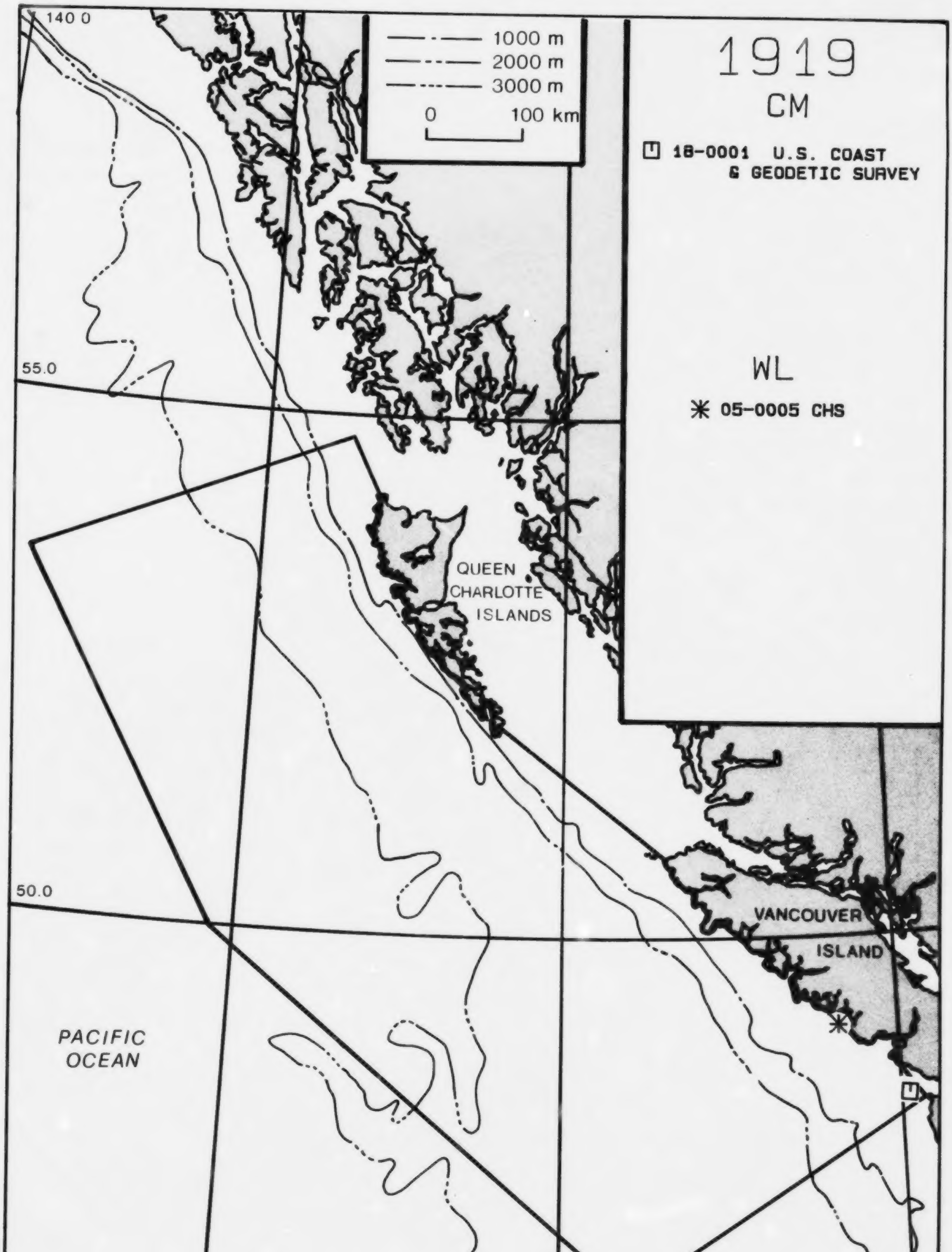
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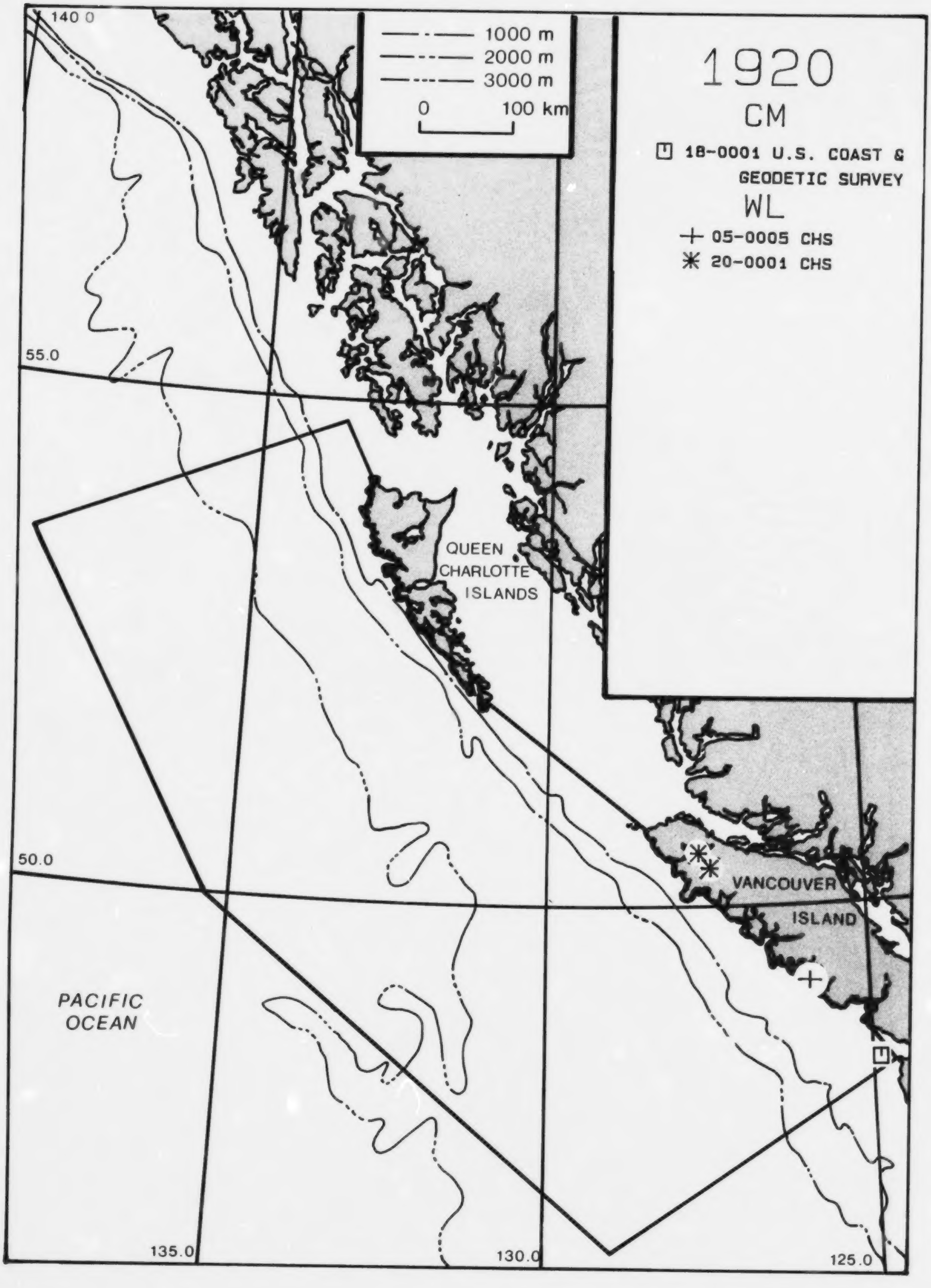
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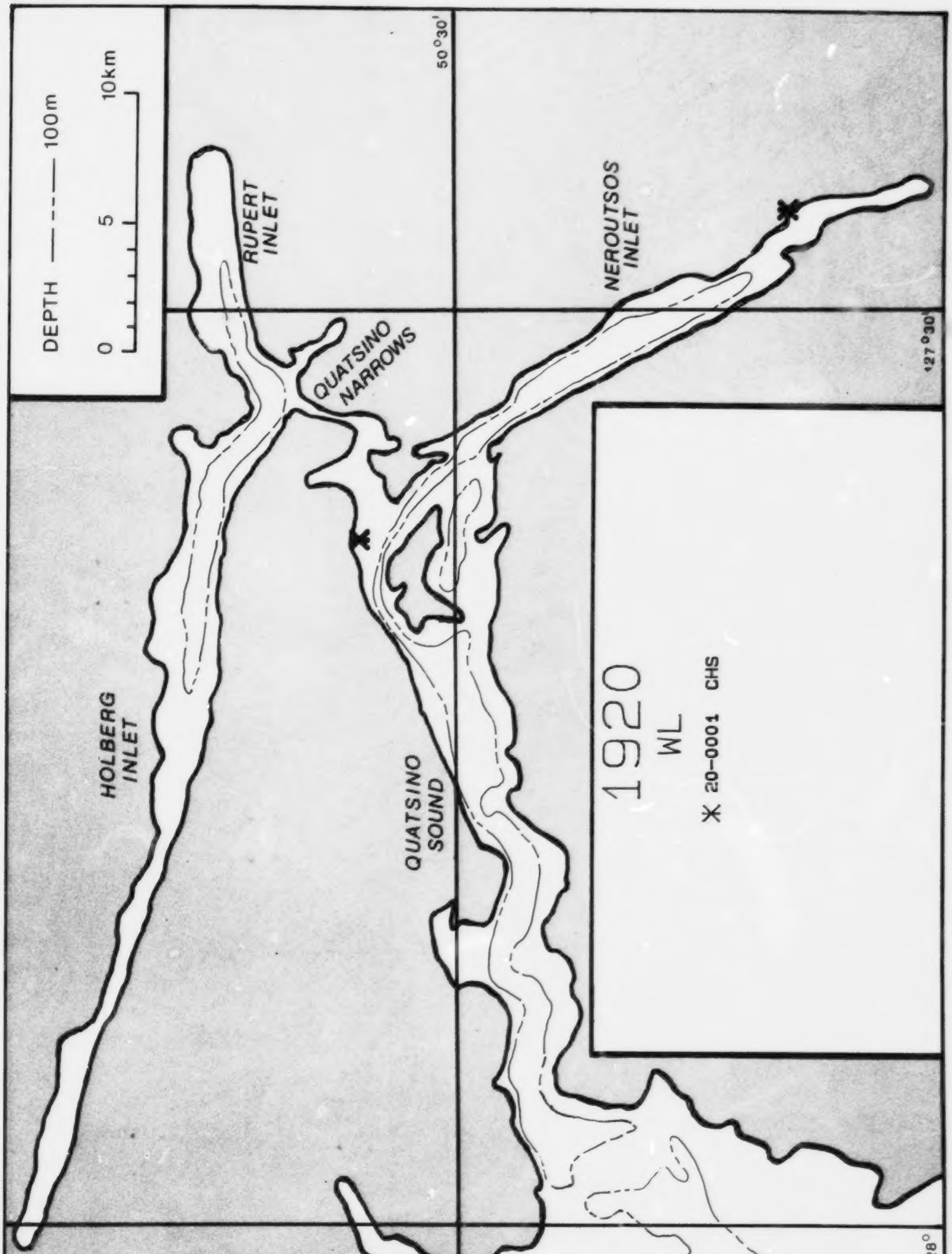

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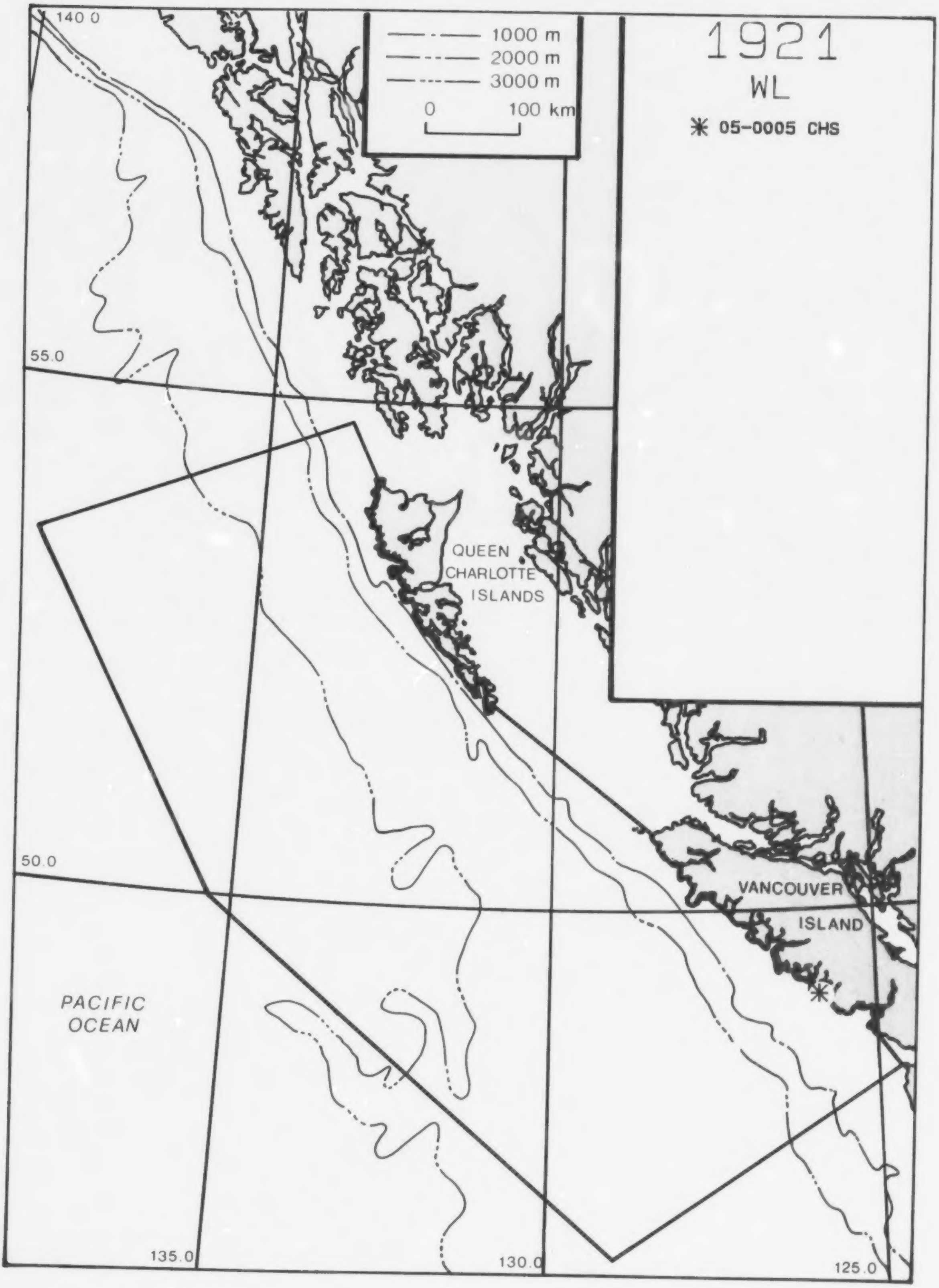
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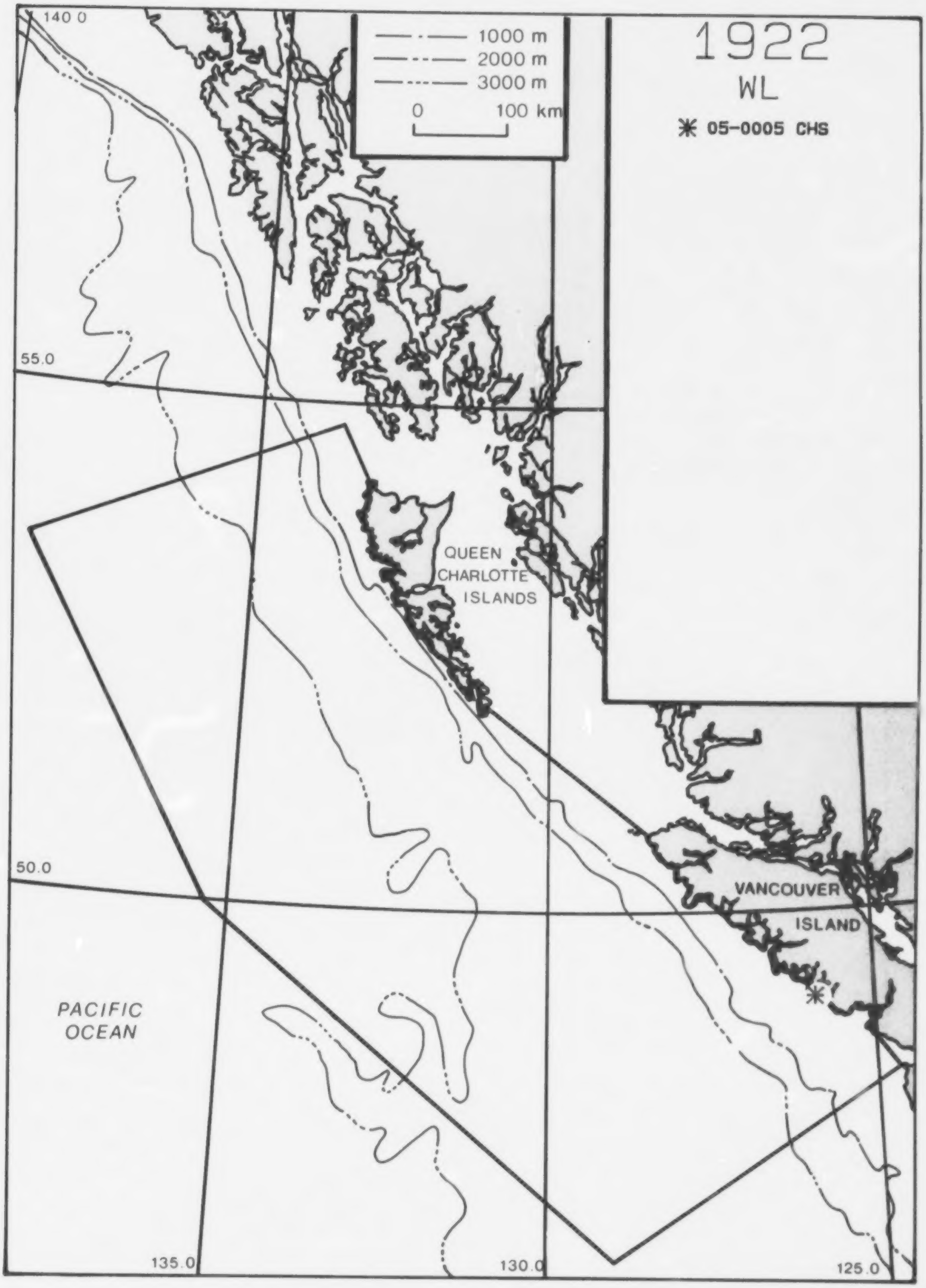
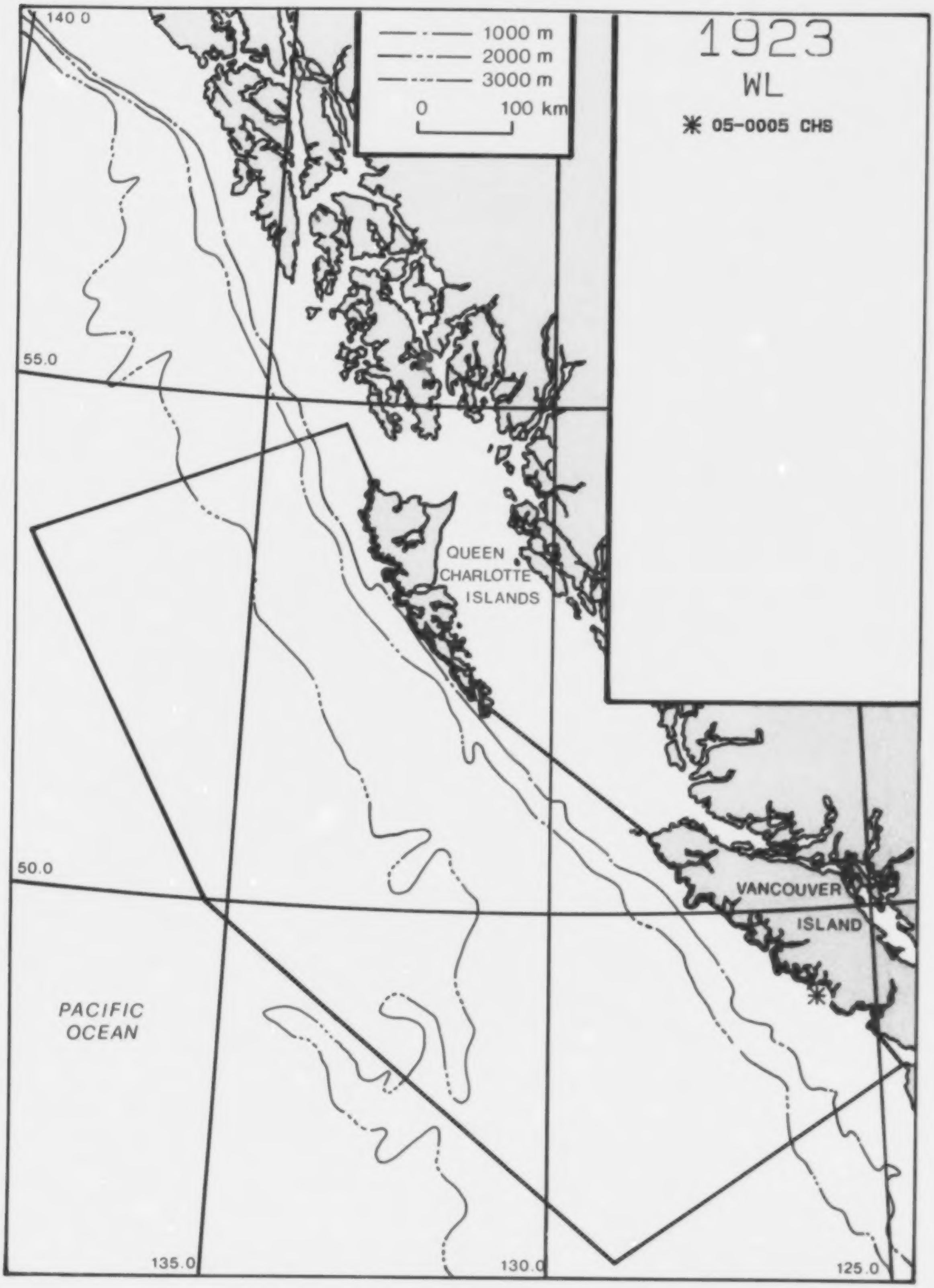
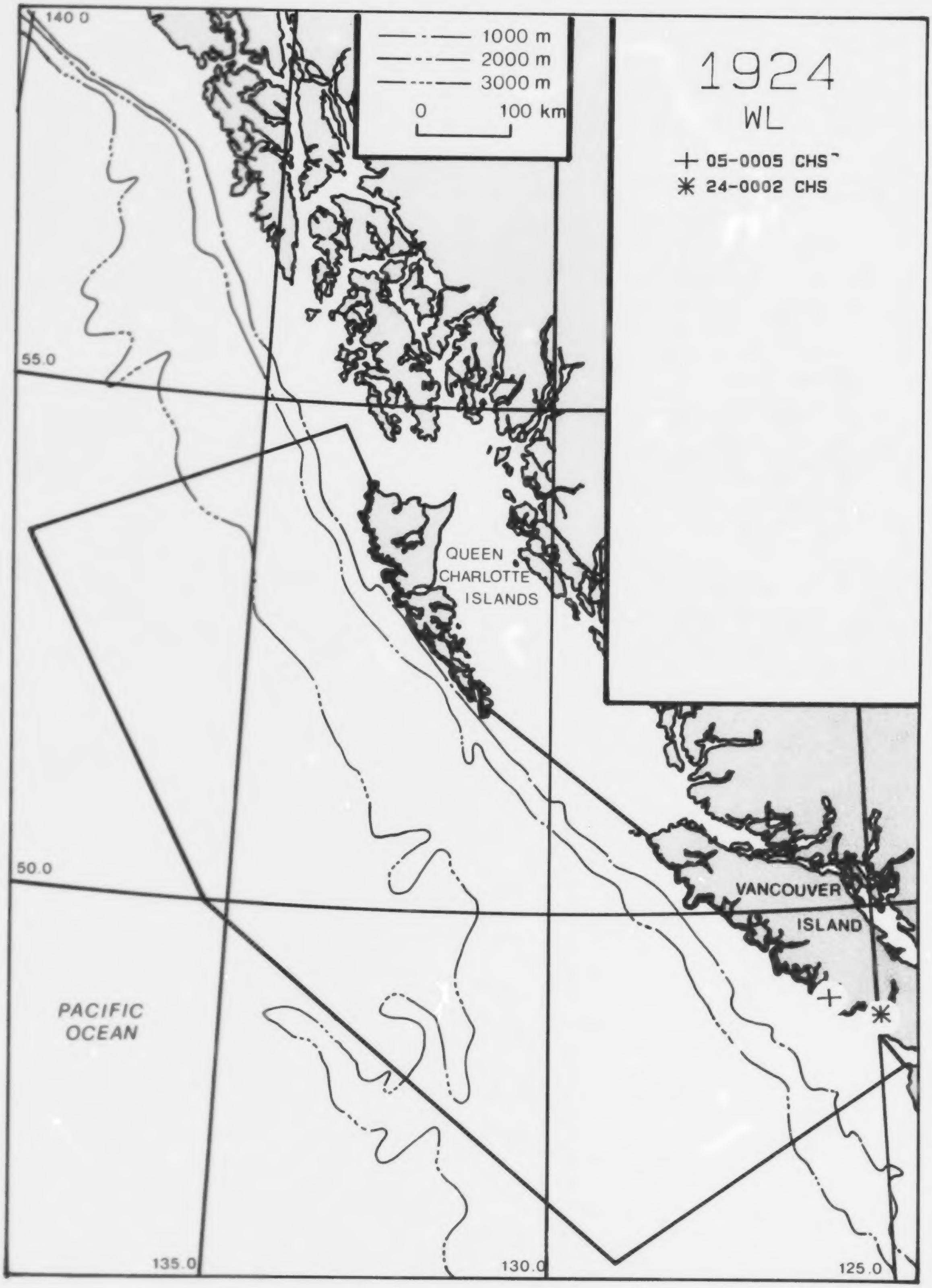
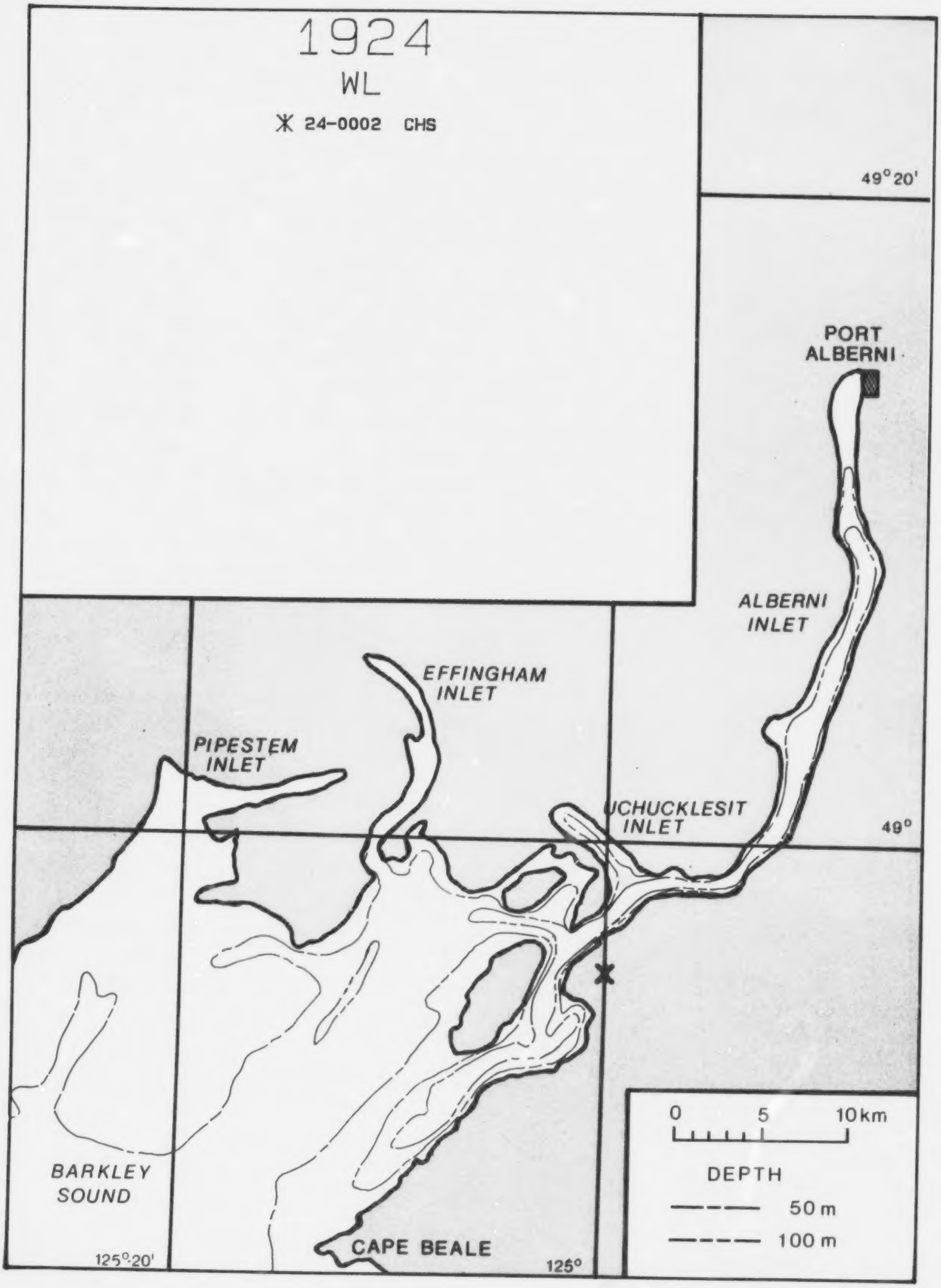
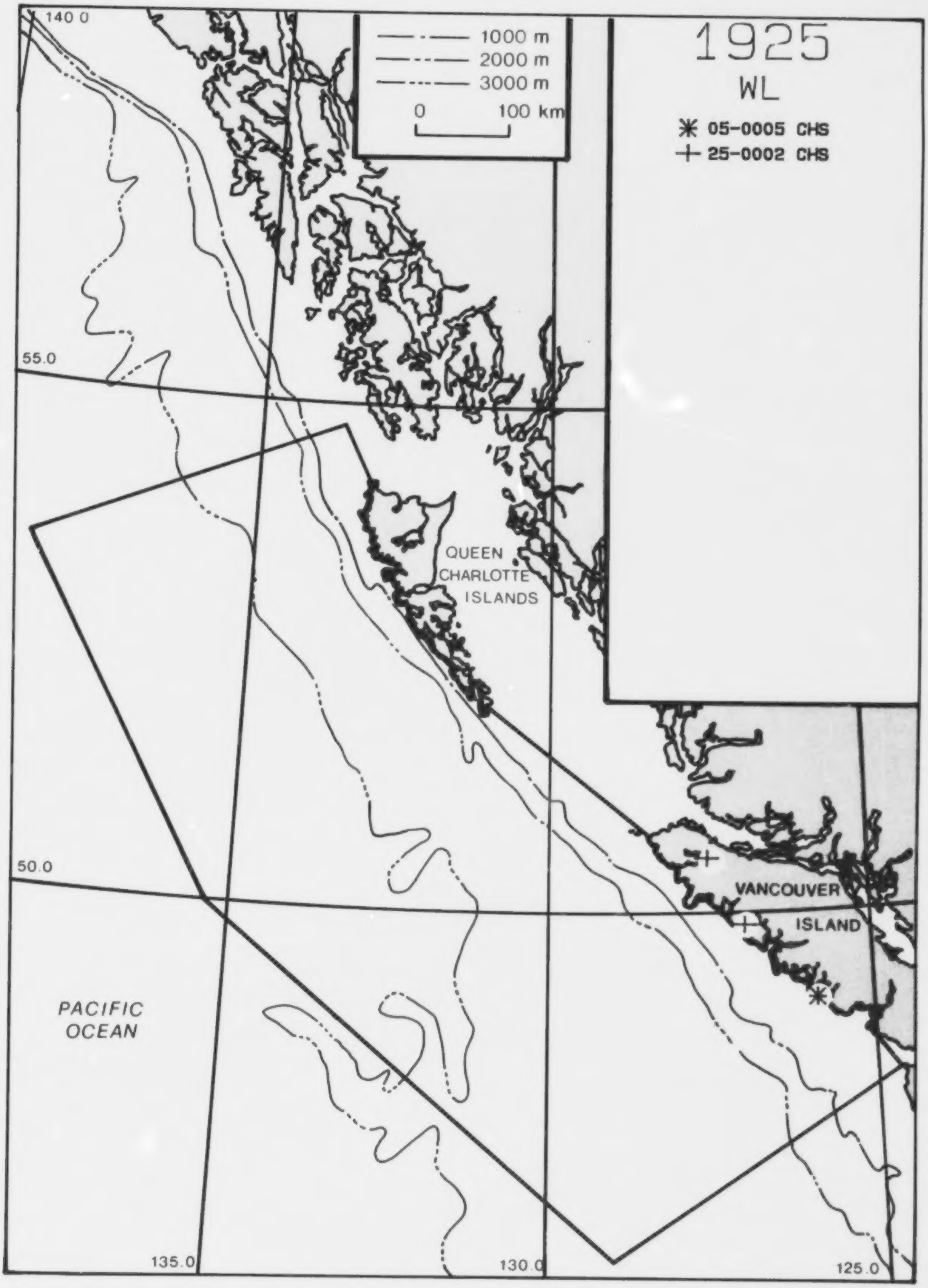
0
100 km
1921
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

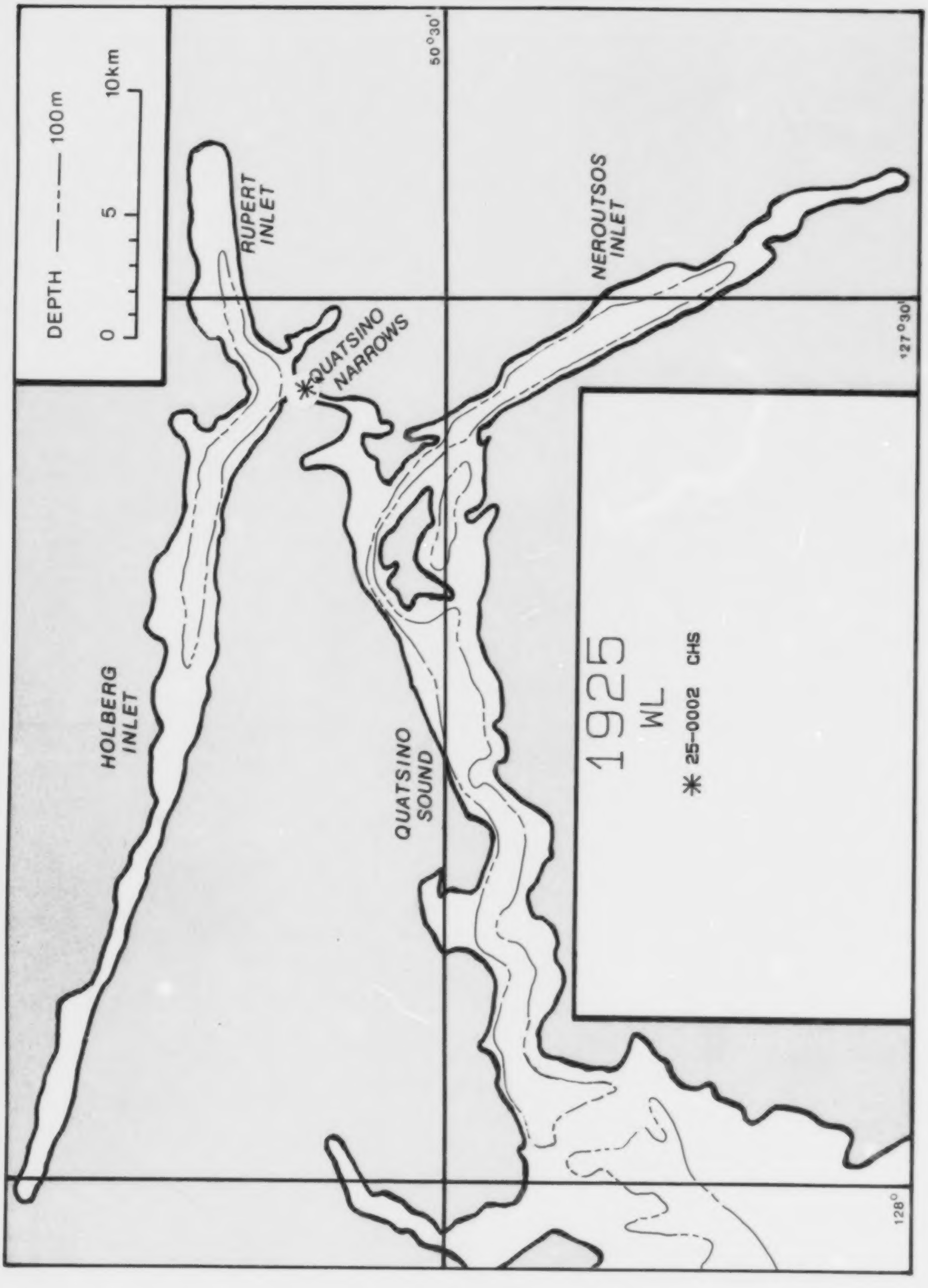

140 0
1000 m
2000 m
3000 m
0
100 km
1922
WL
✳ 05-0005 CHS
55.0
50.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

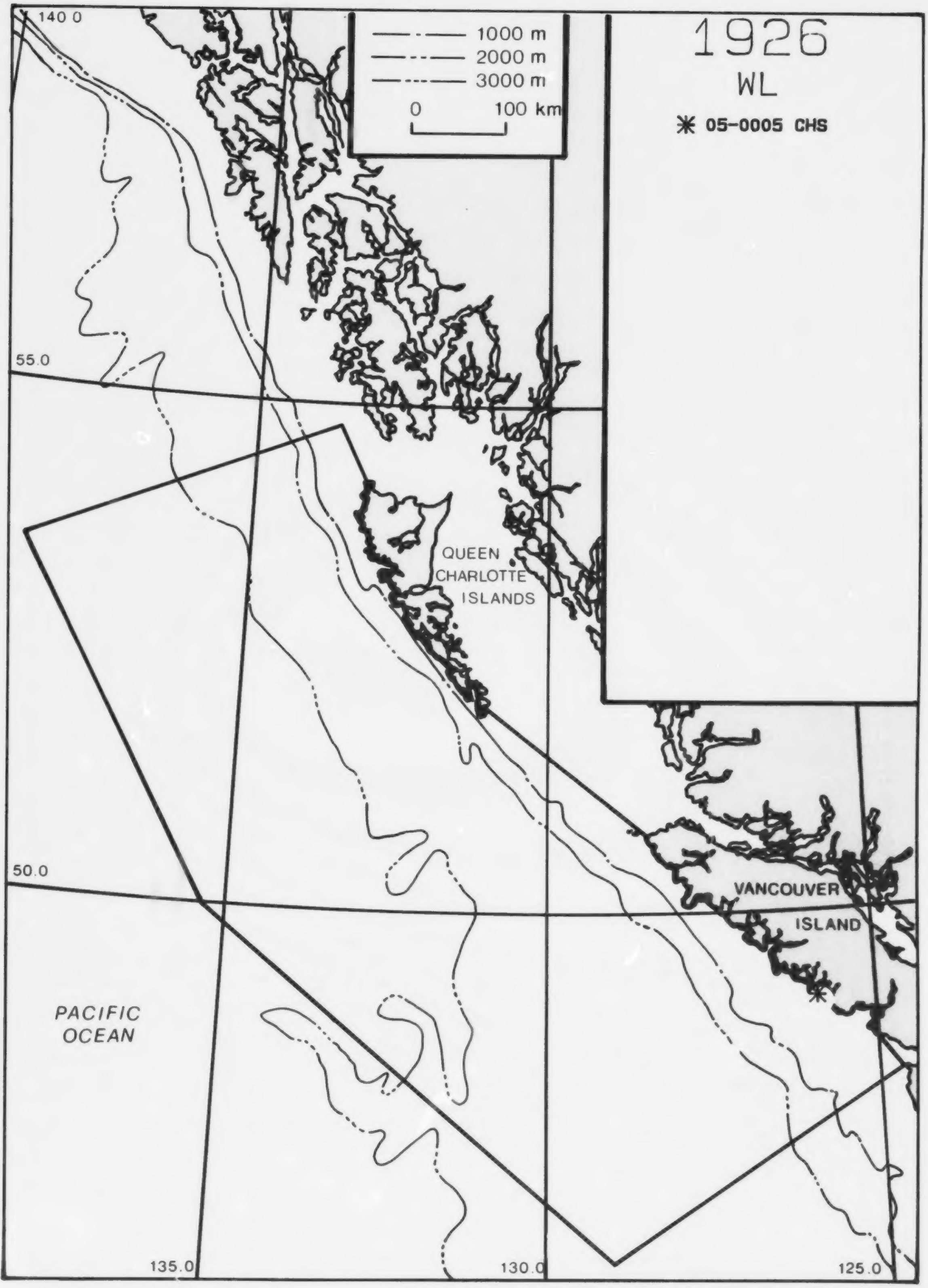

140.0
1000 m
2000 m
3000 m
0
100 km
1923
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
50.0
PACIFIC
OCEAN
135.0
130.0
125.0

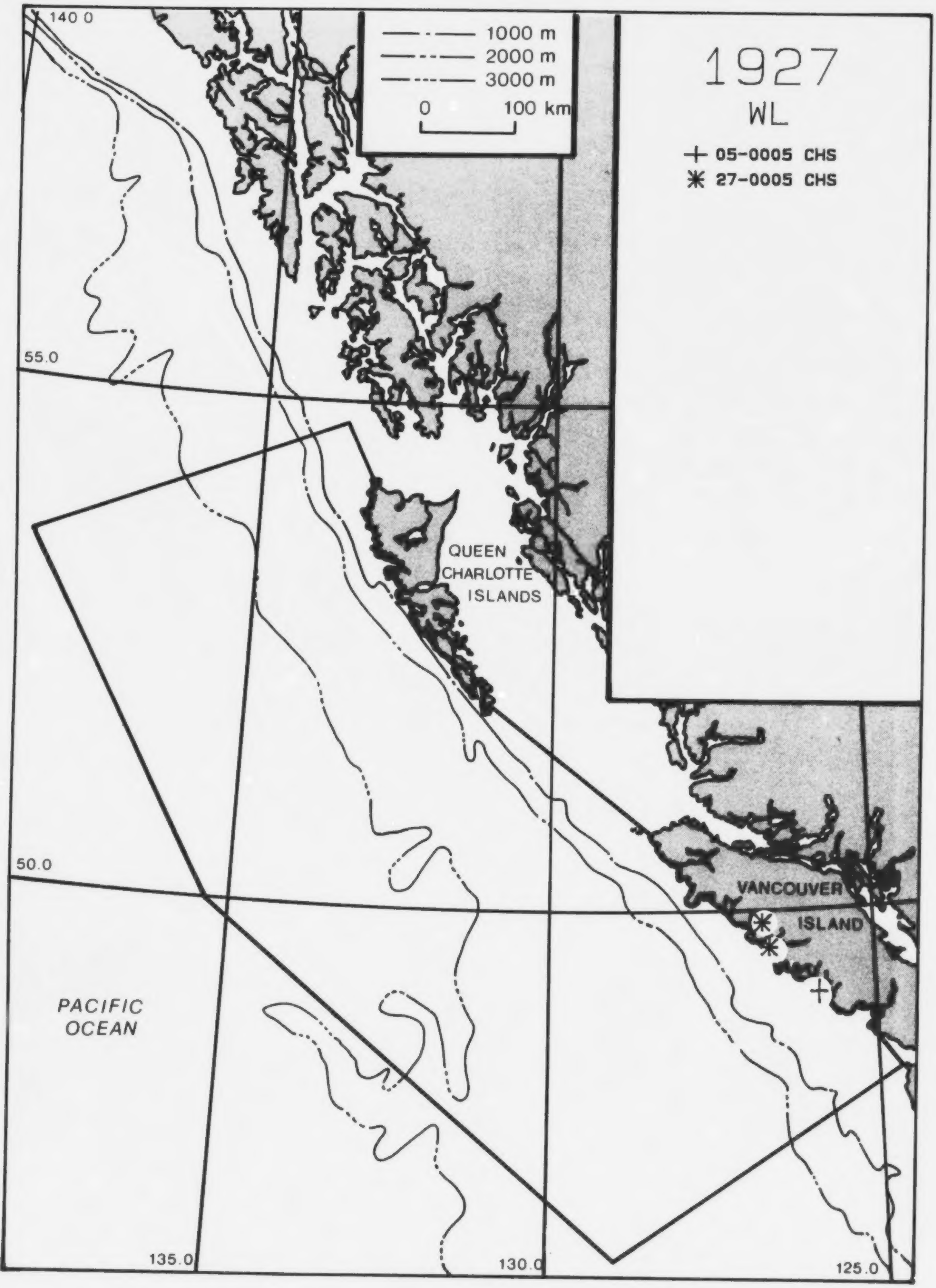

1924
WL
+ 05-0005 CHS
✳ 24-0002 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

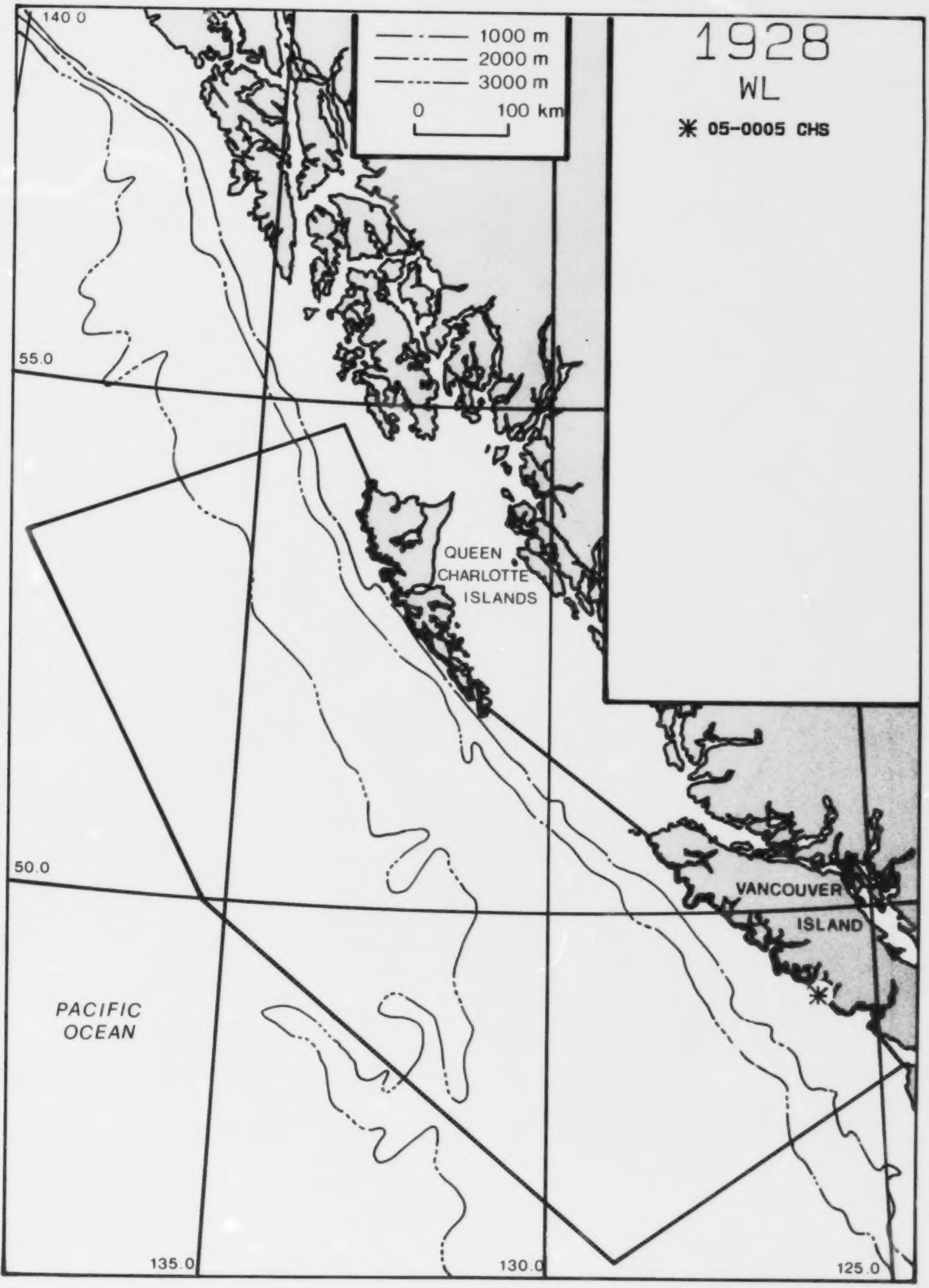

1924
WL
⋇ 24-0002 CHS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125° 20'
125°
0 5 10 km
DEPTH
50 m
100 m

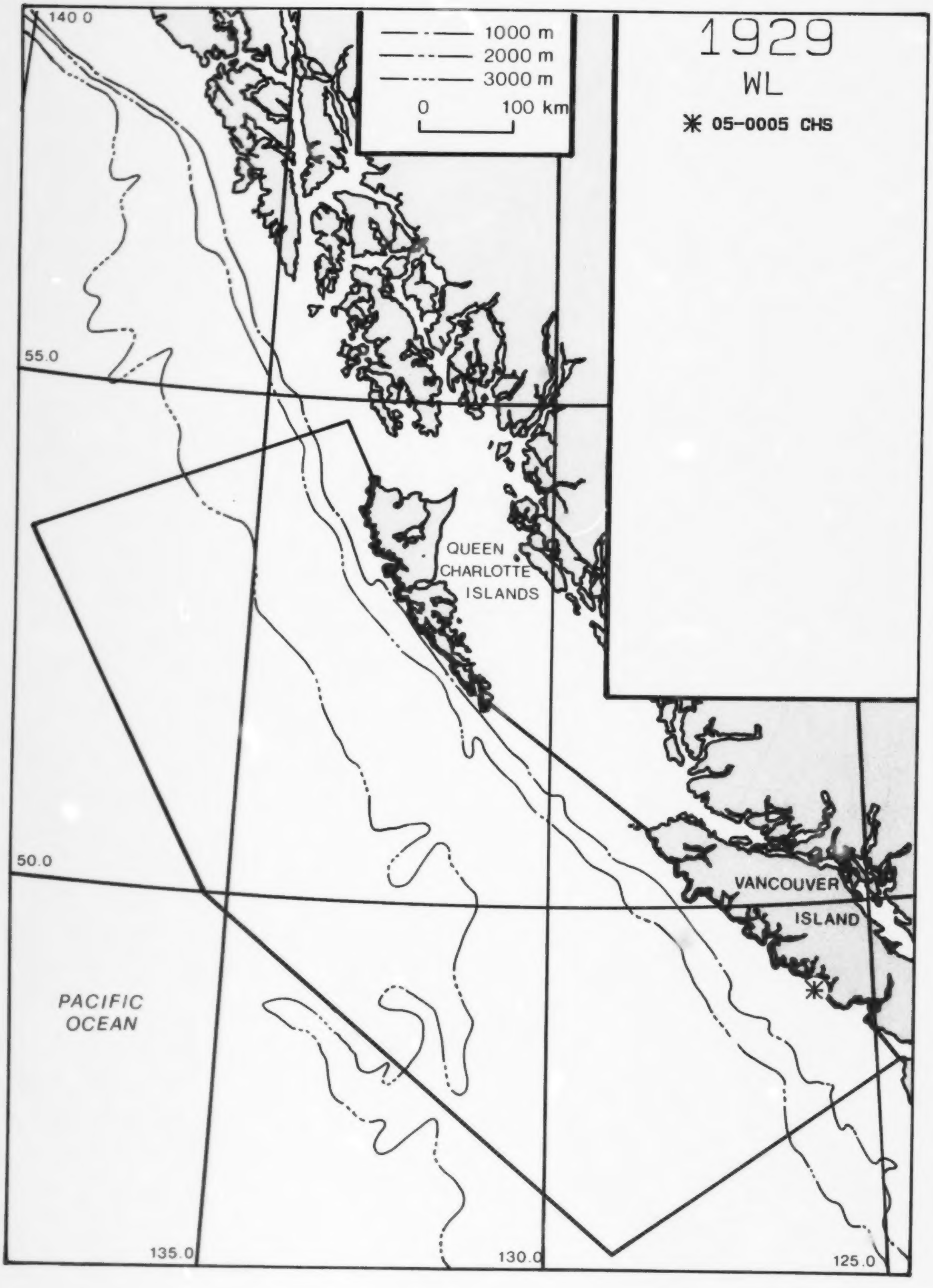

1925
WL
✳ 05-0005 CHS
+ 25-0002 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

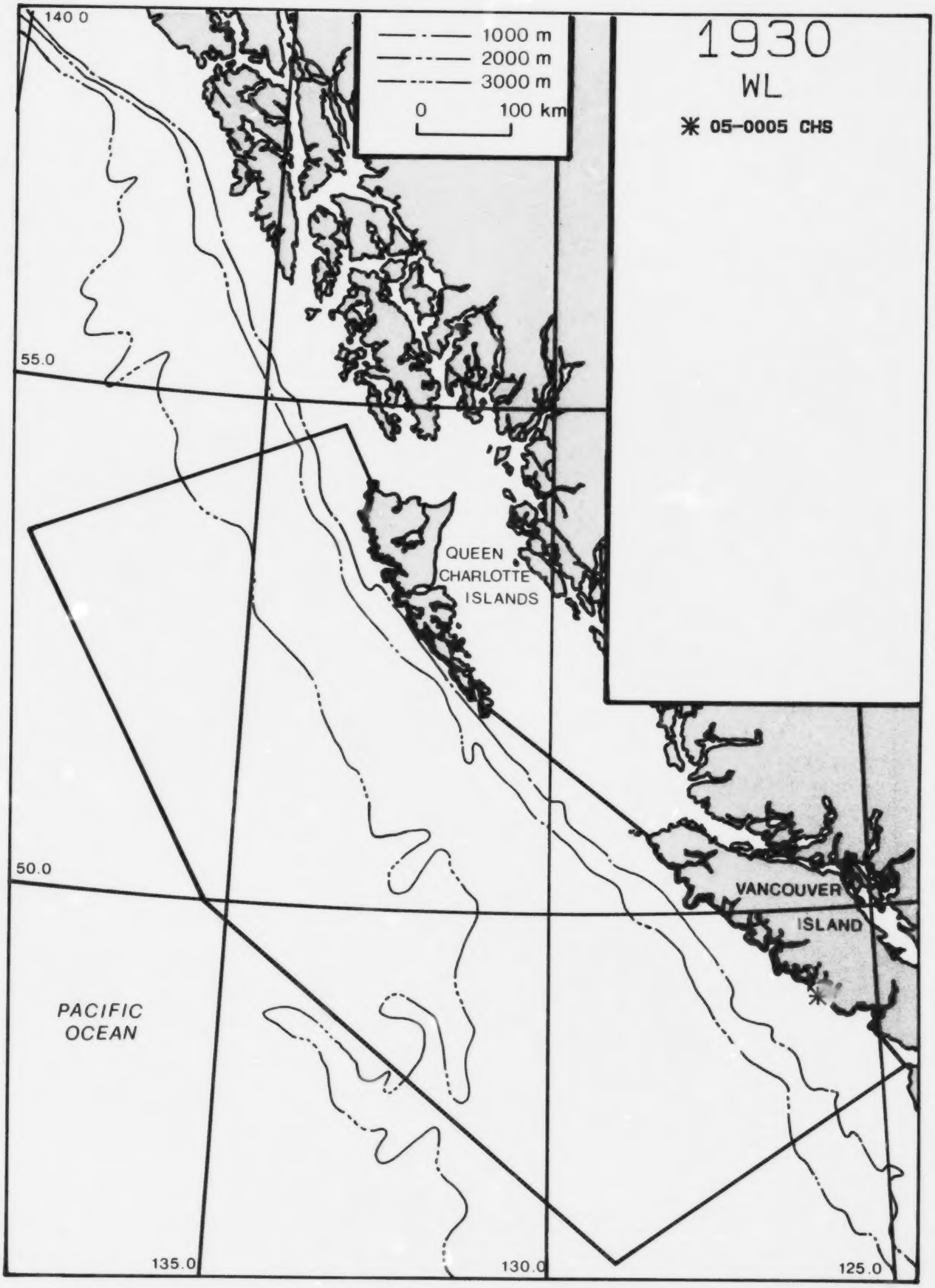

DEPTH
100m
0
5
10km
RUPERT INLET
QUATSINO NARROWS
NEROUTSOS INLET
HOLBERG INLET
QUATSINO SOUND
1925
WL
✱ 25-0002 CHS
50°30'
127°30'
128°

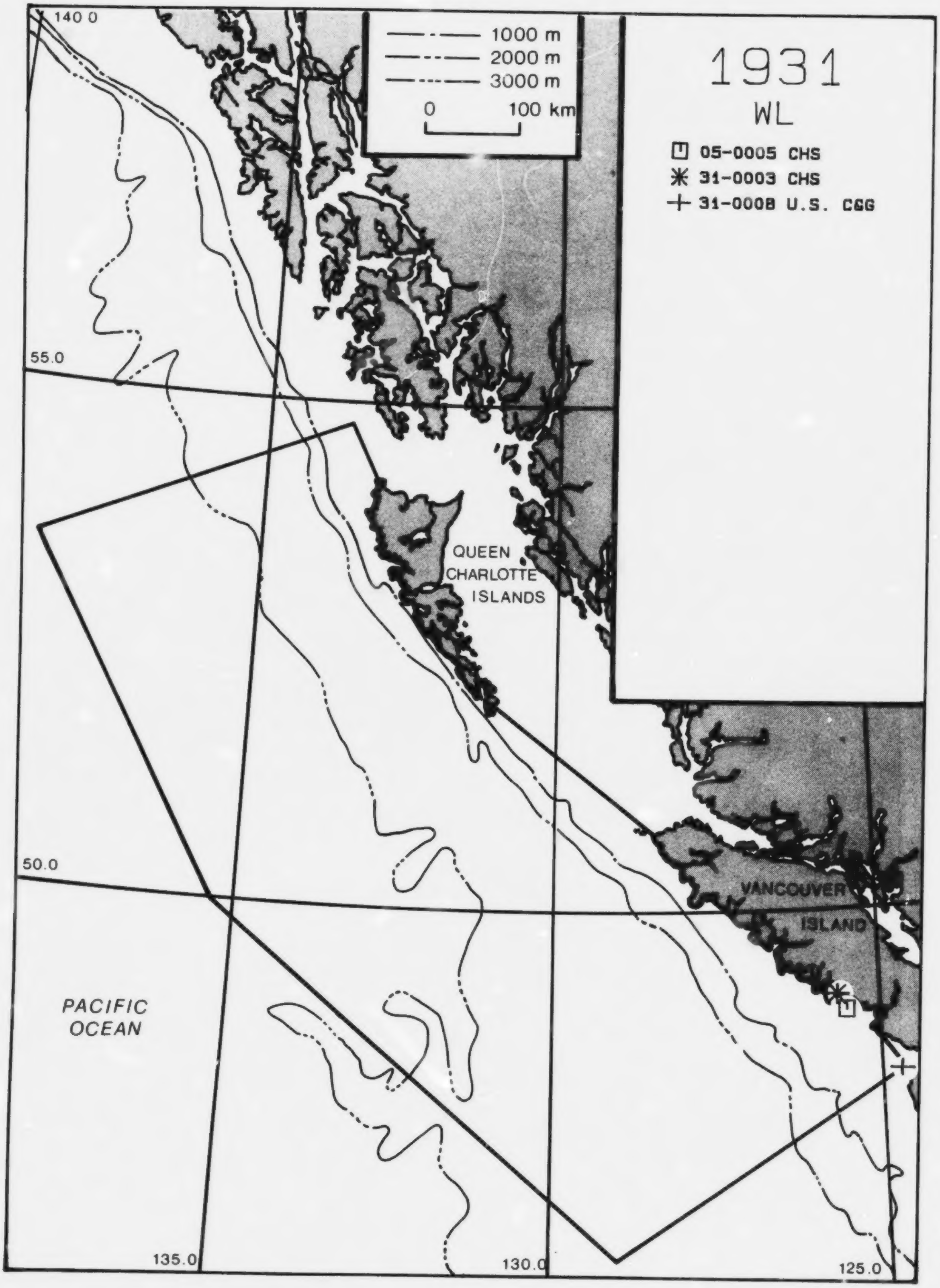

140.0
1000 m
2000 m
3000 m
0
100 km
1926
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

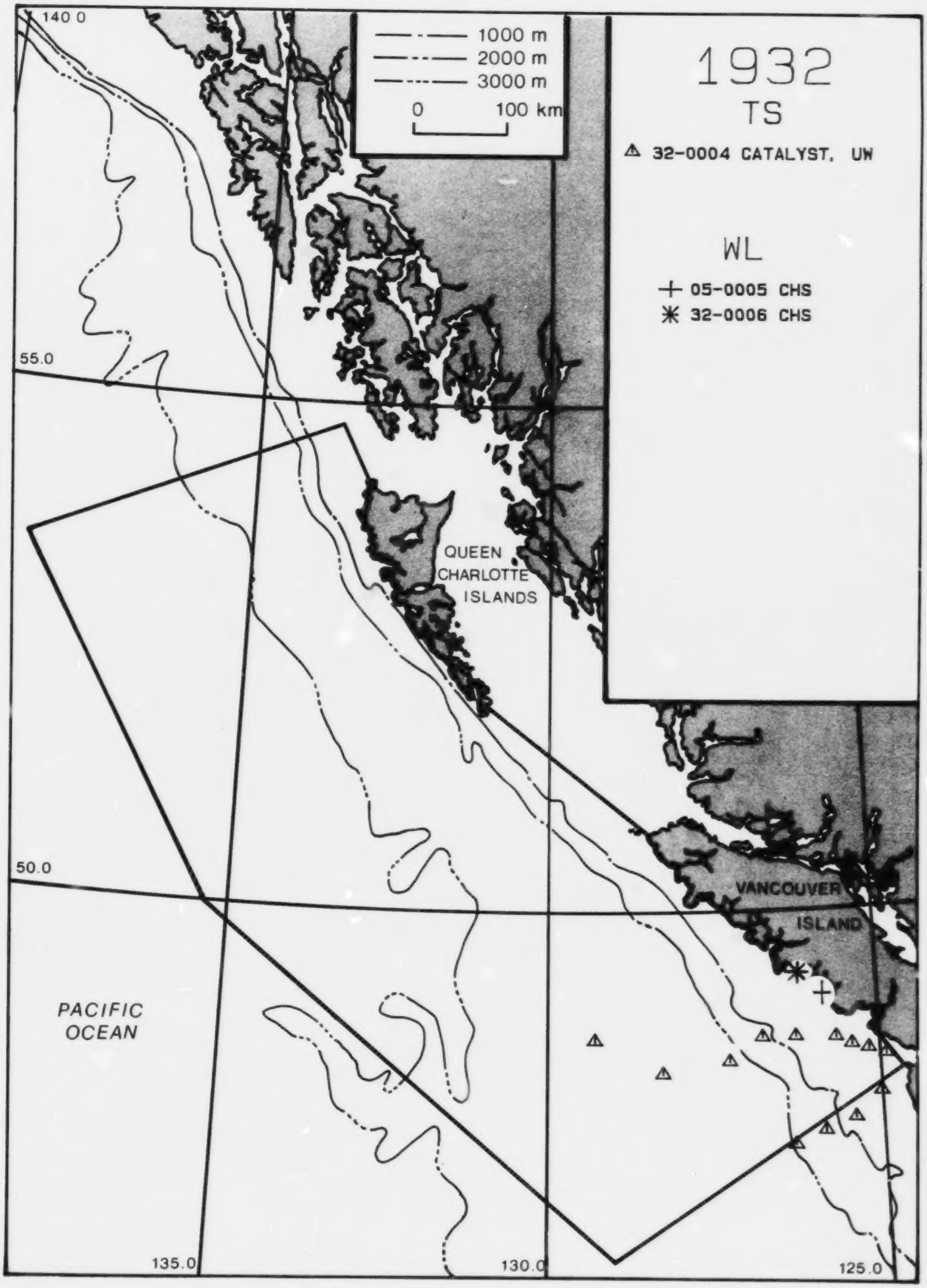

140.0
1000 m
2000 m
3000 m
0
100 km
1927
WL
+ 05-0005 CHS
✳ 27-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

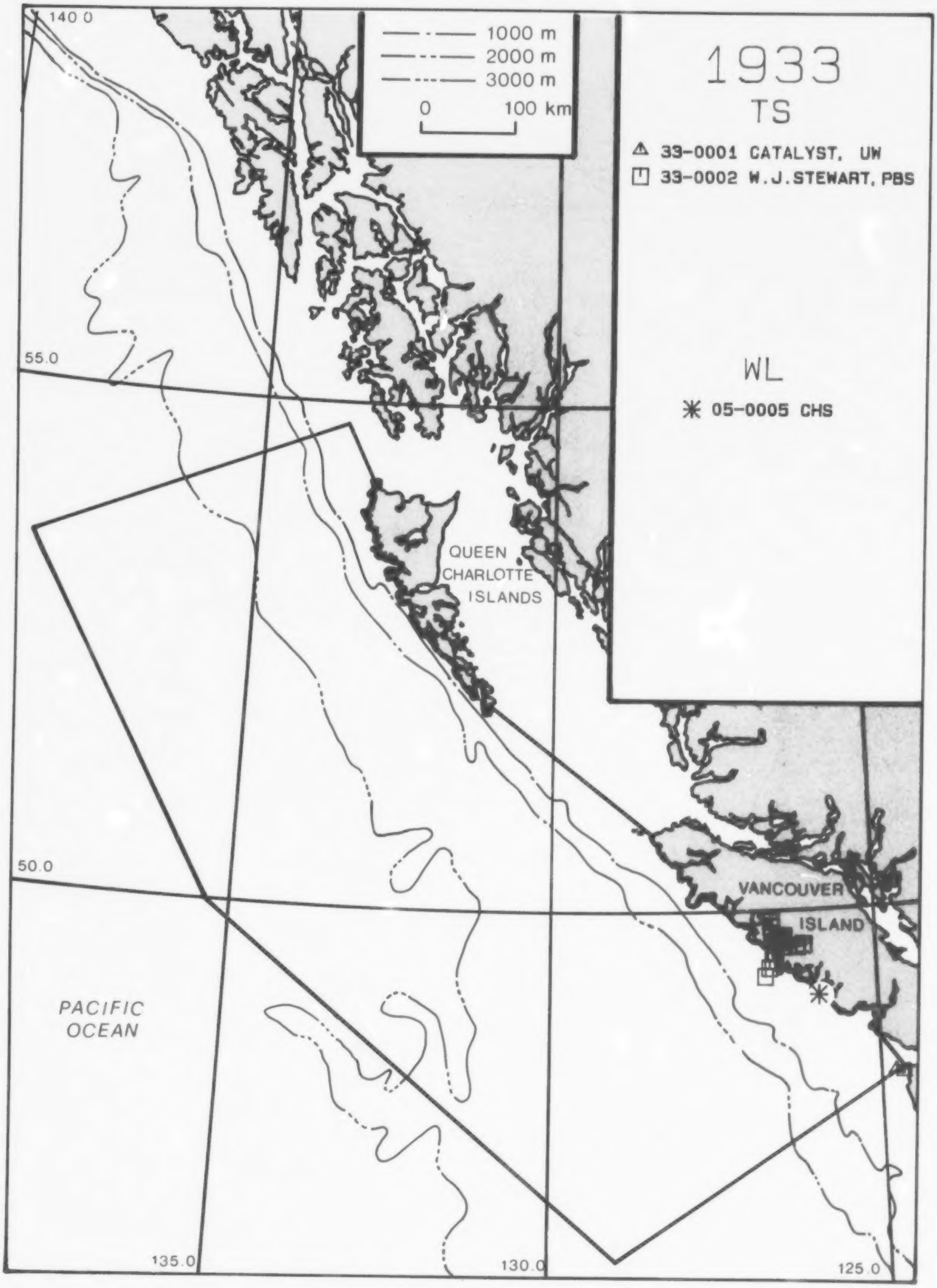

140.0
1000 m
2000 m
3000 m
0
100 km
1928
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

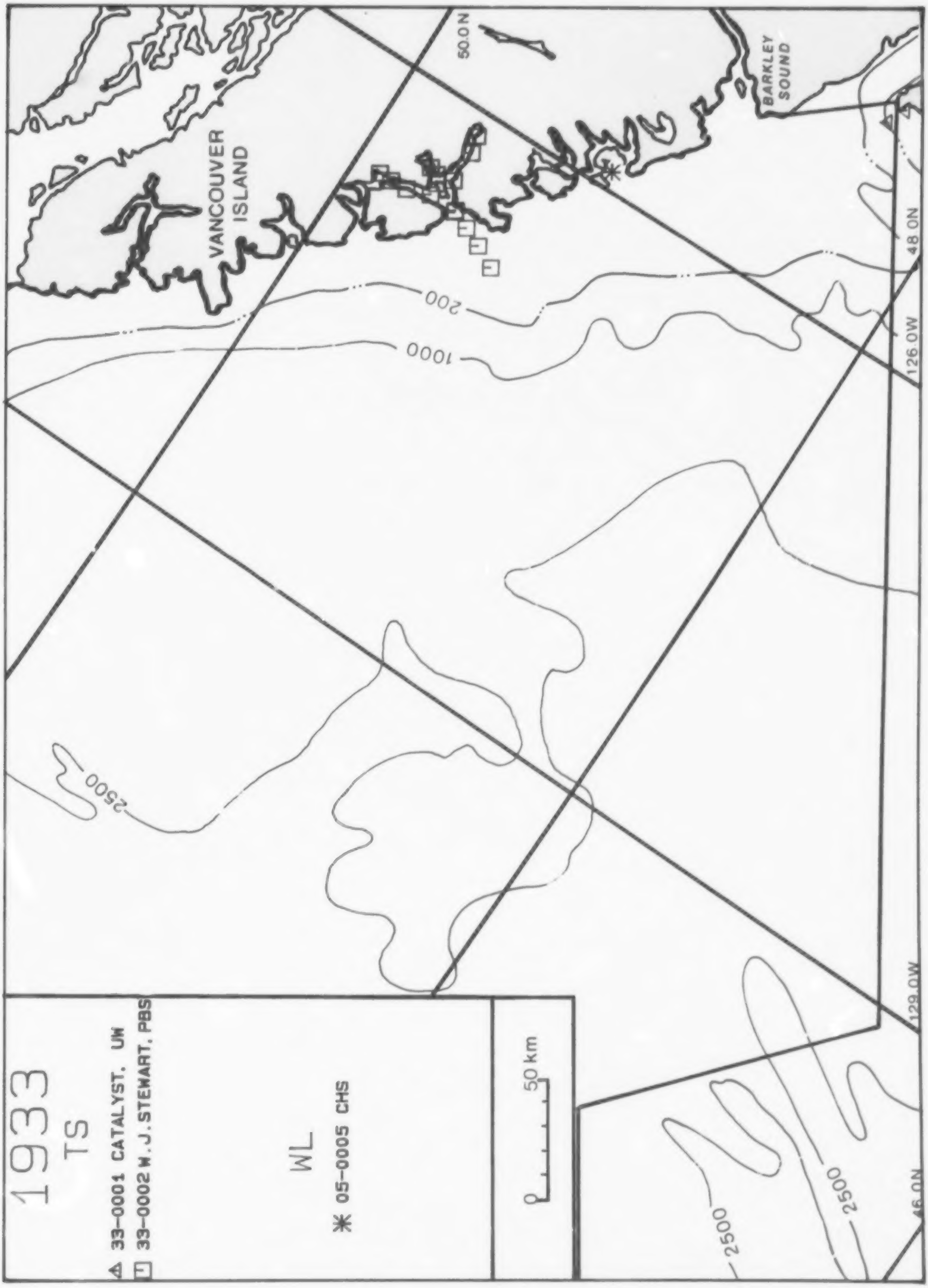

140.0
1000 m
2000 m
3000 m
0
100 km
1929
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

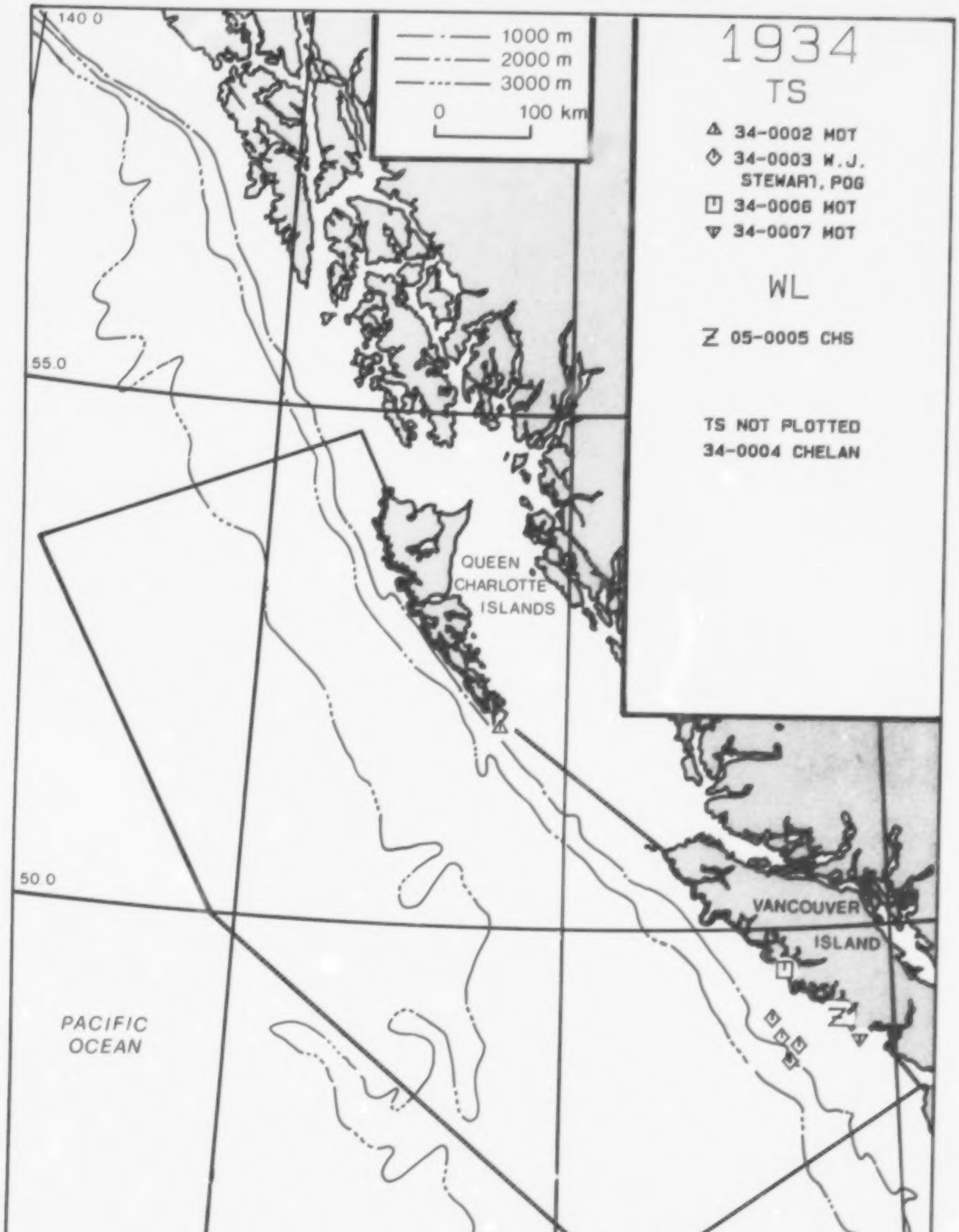

1000 m
2000 m
3000 m
0
100 km
1930
WL
✳ 05-0005 CHS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

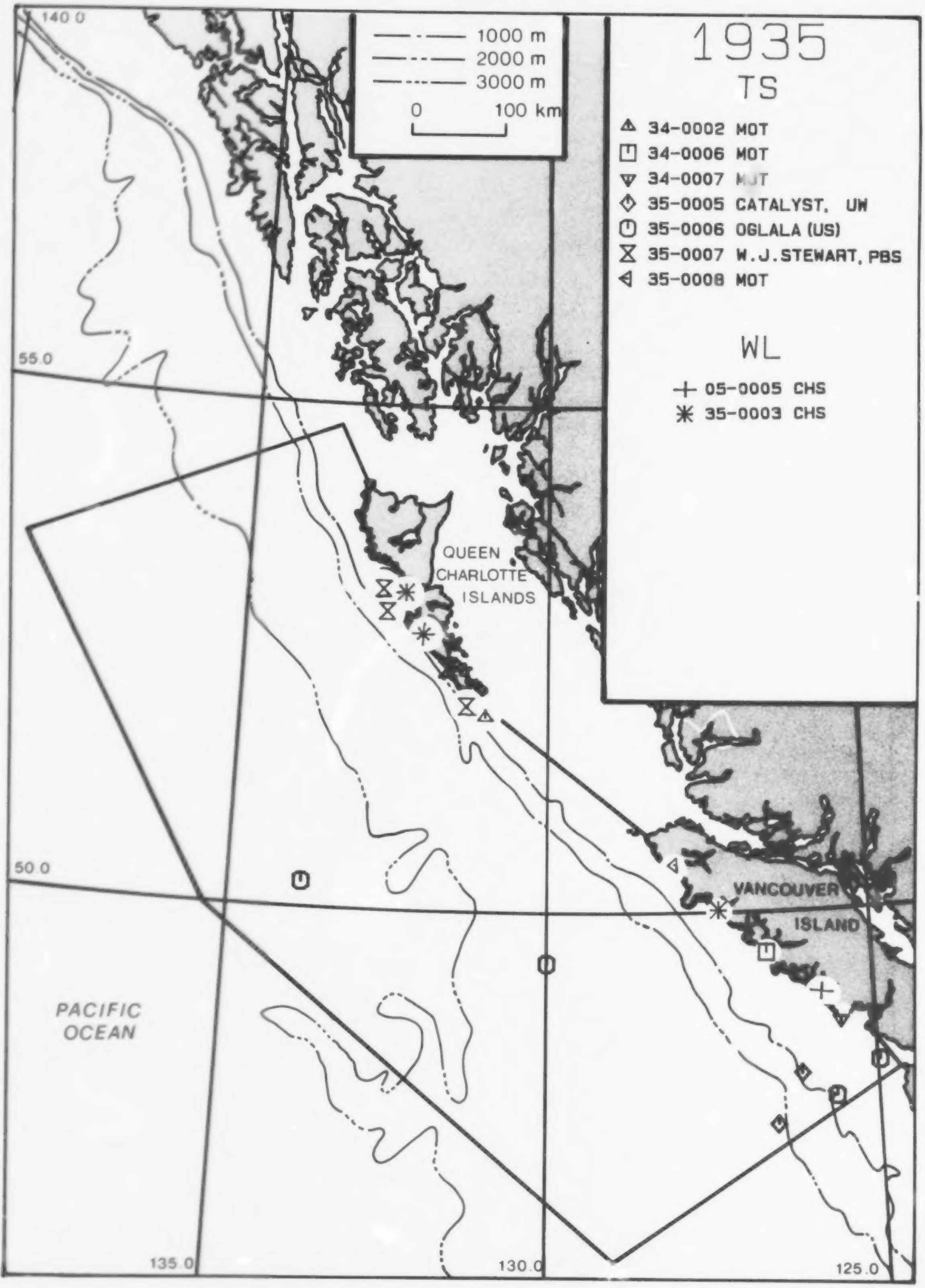

140 0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
1931
WL
05-0005 CHS
31-0003 CHS
31-0008 U.S. CGG
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

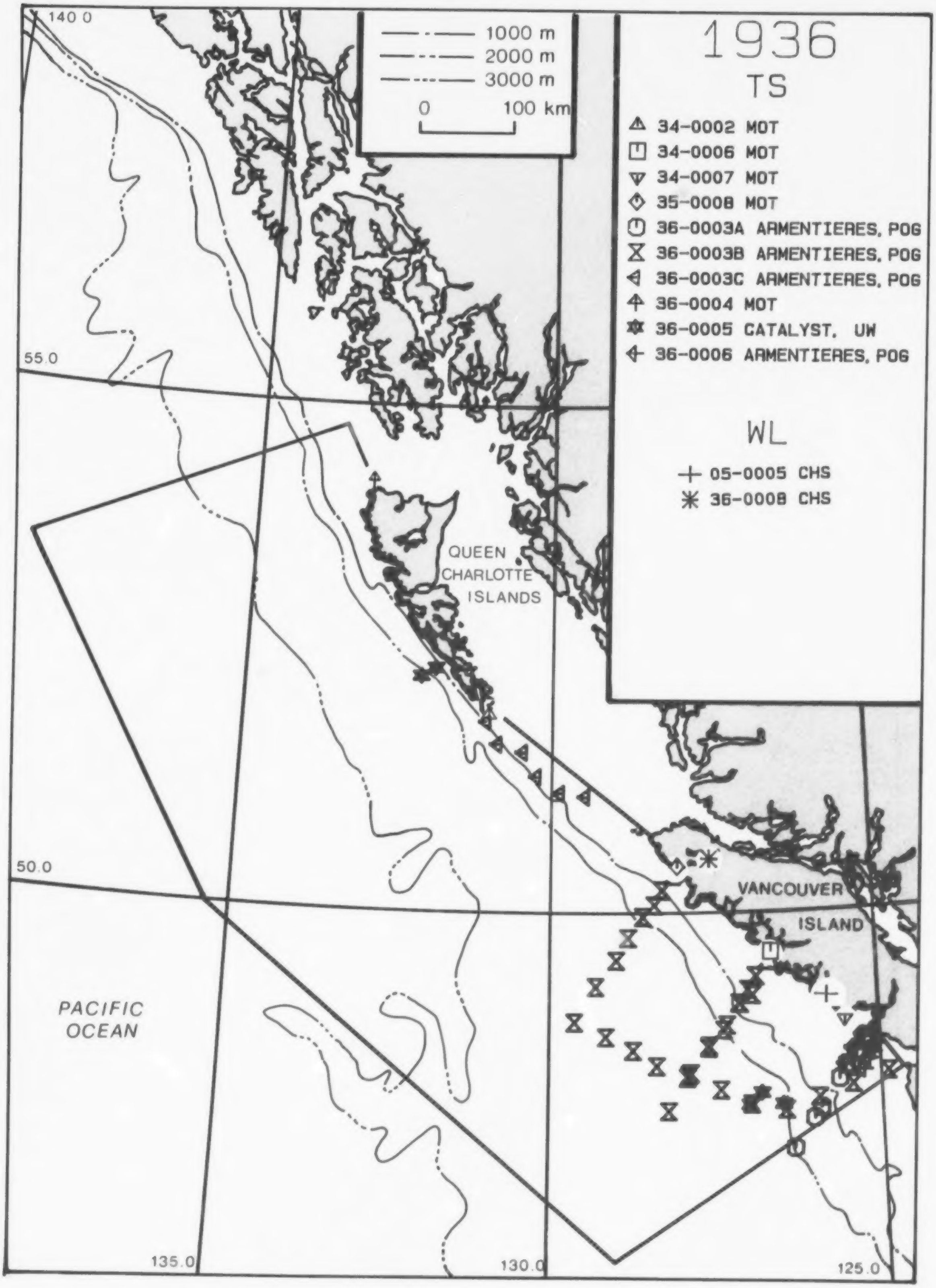

140 0
1000 m
2000 m
3000 m
0
100 km
1932
TS
⚠ 32-0004 CATALYST. UW
WL
+ 05-0005 CHS
✳ 32-0006 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

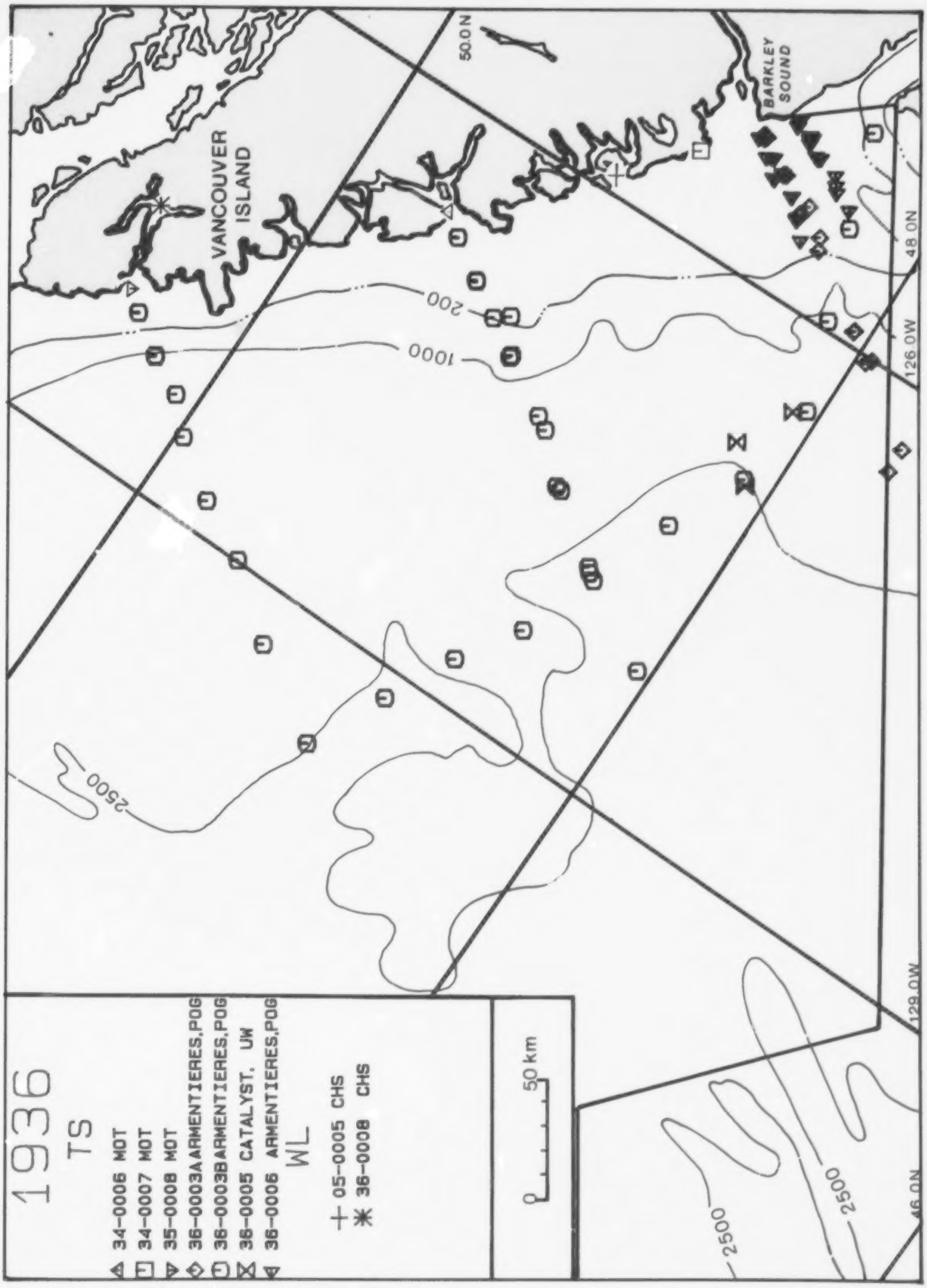

140.0
1000 m
2000 m
3000 m
0
100 km
1933
TS
⚠ 33-0001 CATALYST, UW
☐ 33-0002 W.J.STEWART, PBS
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

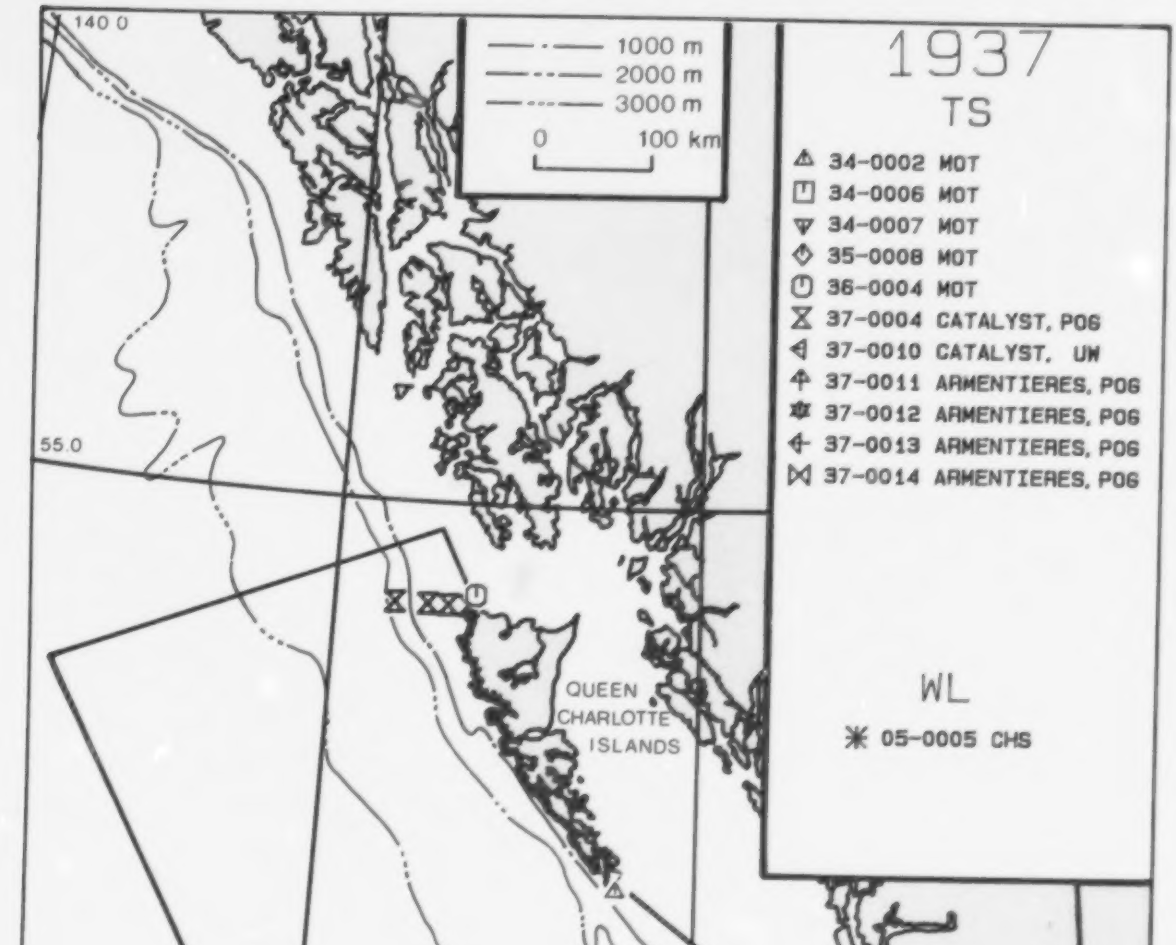

1933
TS
△ 33-0001 CATALYST. UW
□ 33-0002 W.J.STEWART, PBS
WL
✱ 05-0005 CHS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

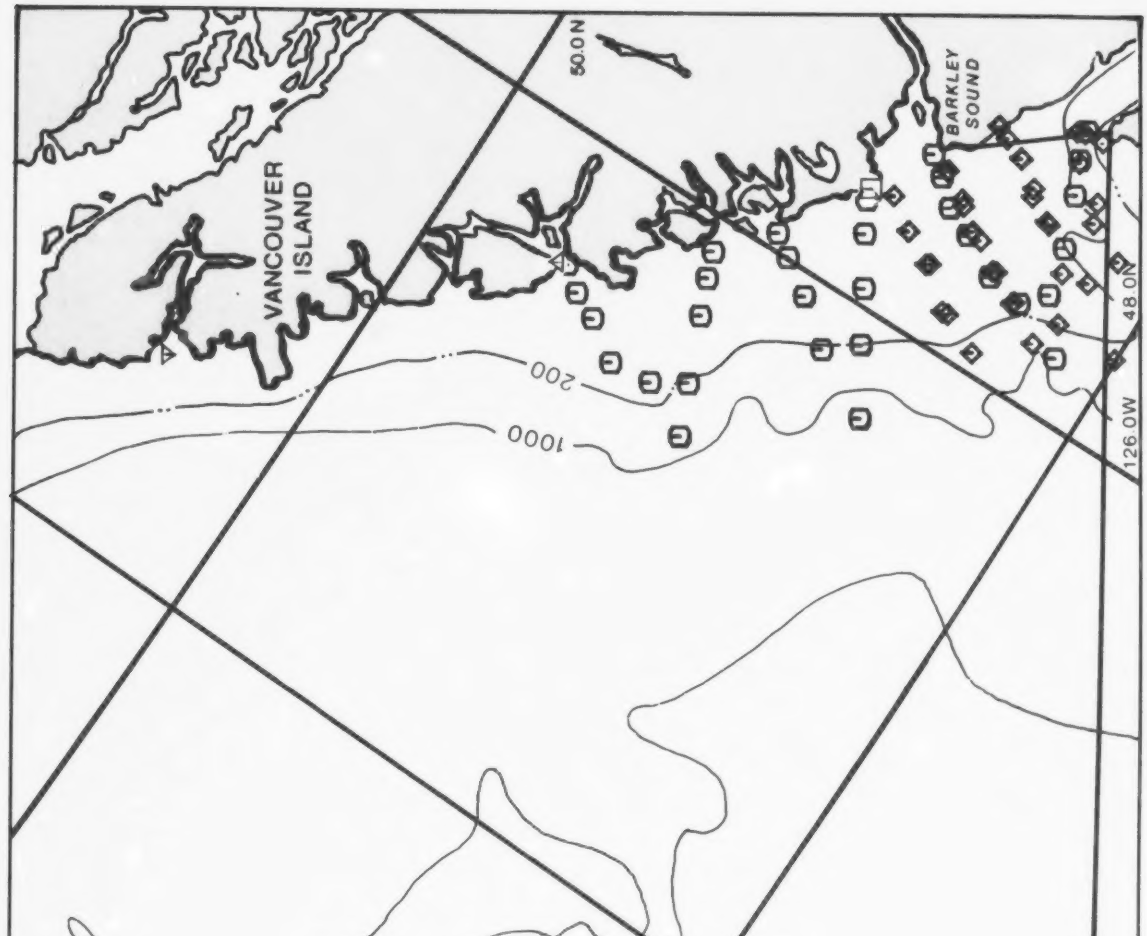

1934
TS
△ 34-0002 MOT
◇ 34-0003 W.J. STEWART, POG
☐ 34-0006 MOT
▽ 34-0007 MOT
WL
Z 05-0005 CHS
TS NOT PLOTTED
34-0004 CHELAN
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

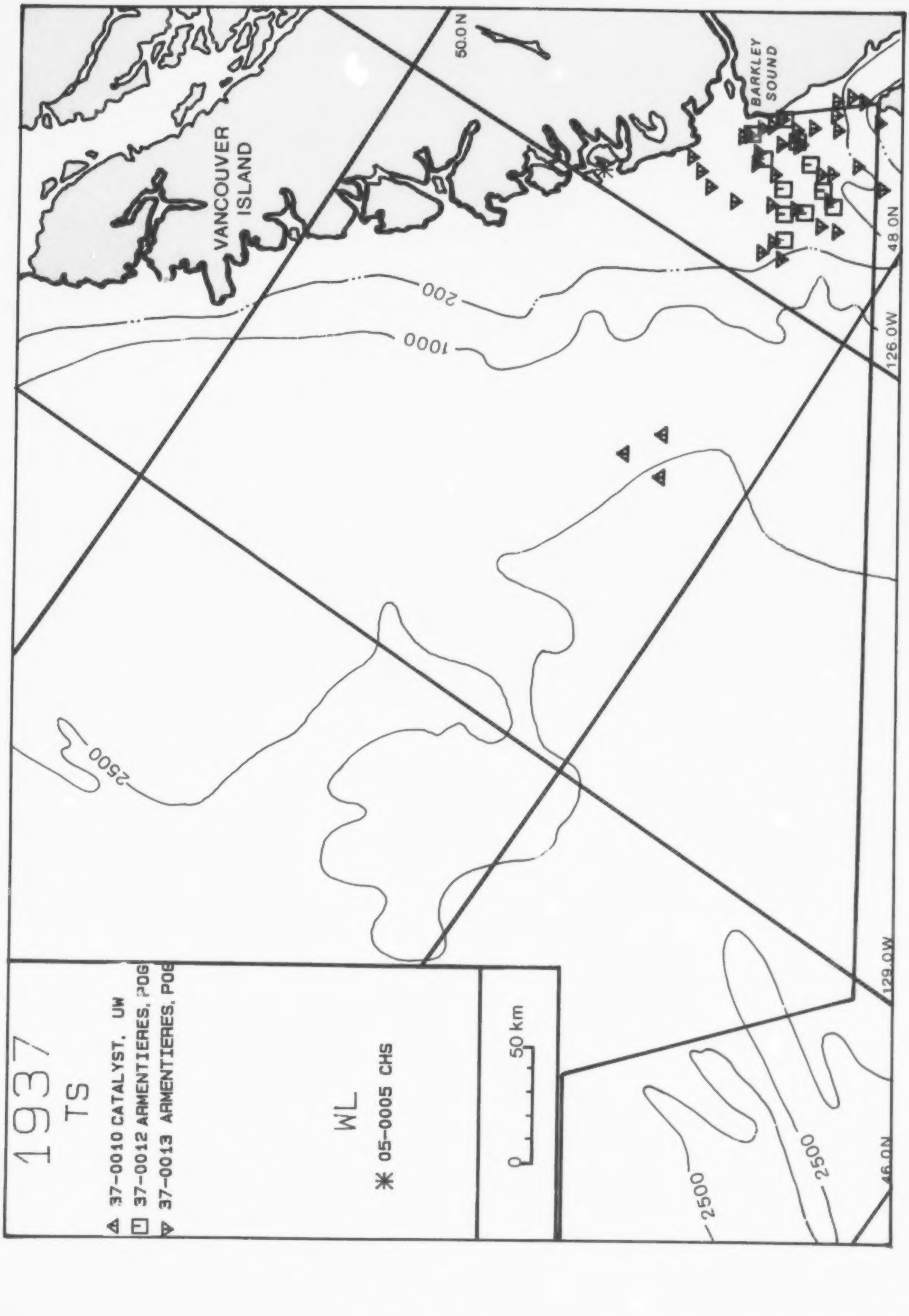

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
1935
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0005 CATALYST, UW
35-0006 OGLALA (US)
35-0007 W.J.STEWART, PBS
35-0008 MOT
WL
05-0005 CHS
35-0003 CHS
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

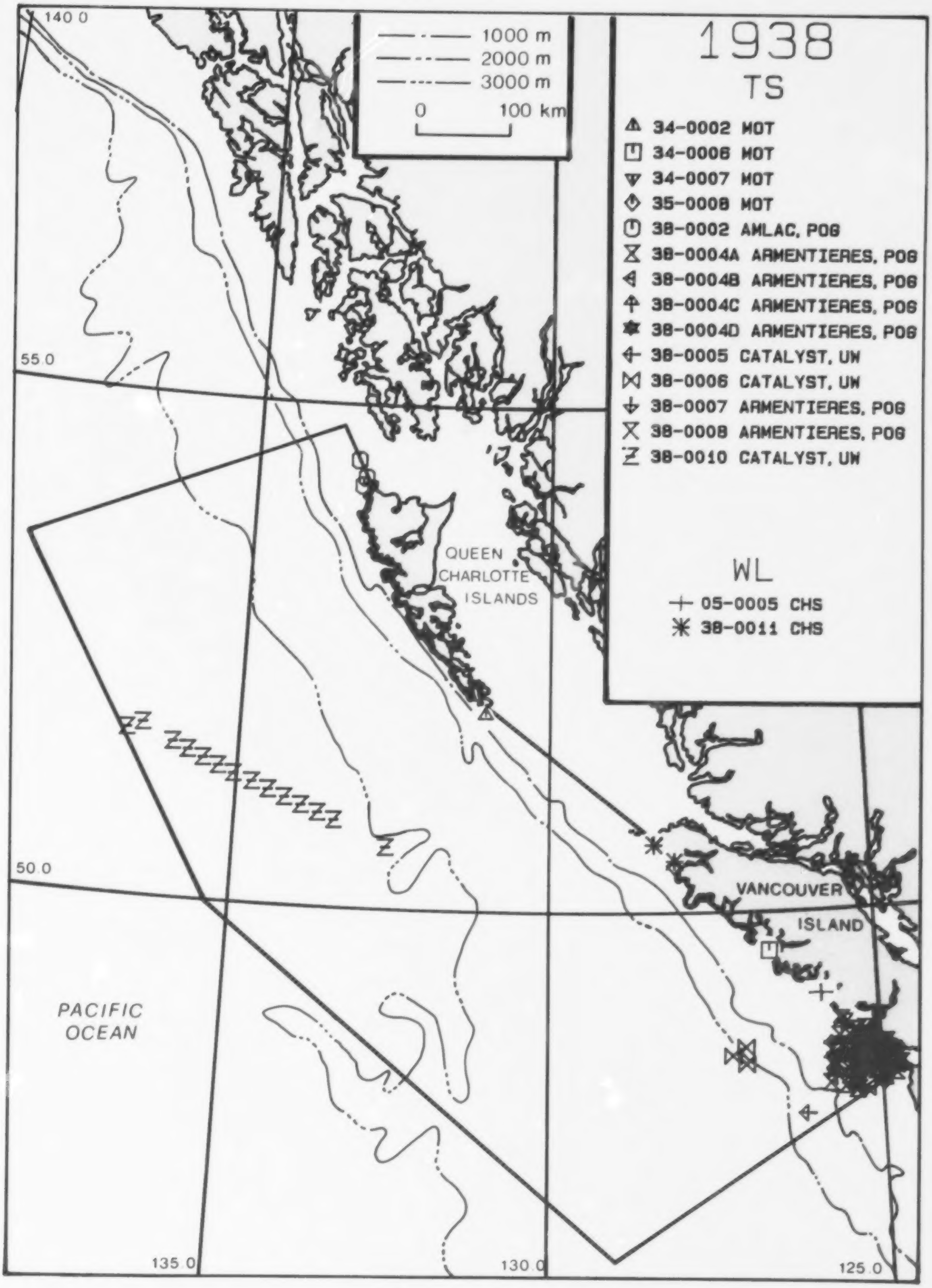

1000 m
2000 m
3000 m
0
100 km
1936
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
36-0003A ARMENTIERES, POG
36-0003B ARMENTIERES, POG
36-0003C ARMENTIERES, POG
36-0004 MOT
36-0005 CATALYST, UW
36-0006 ARMENTIERES, POG
WL
05-0005 CHS
36-0008 CHS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

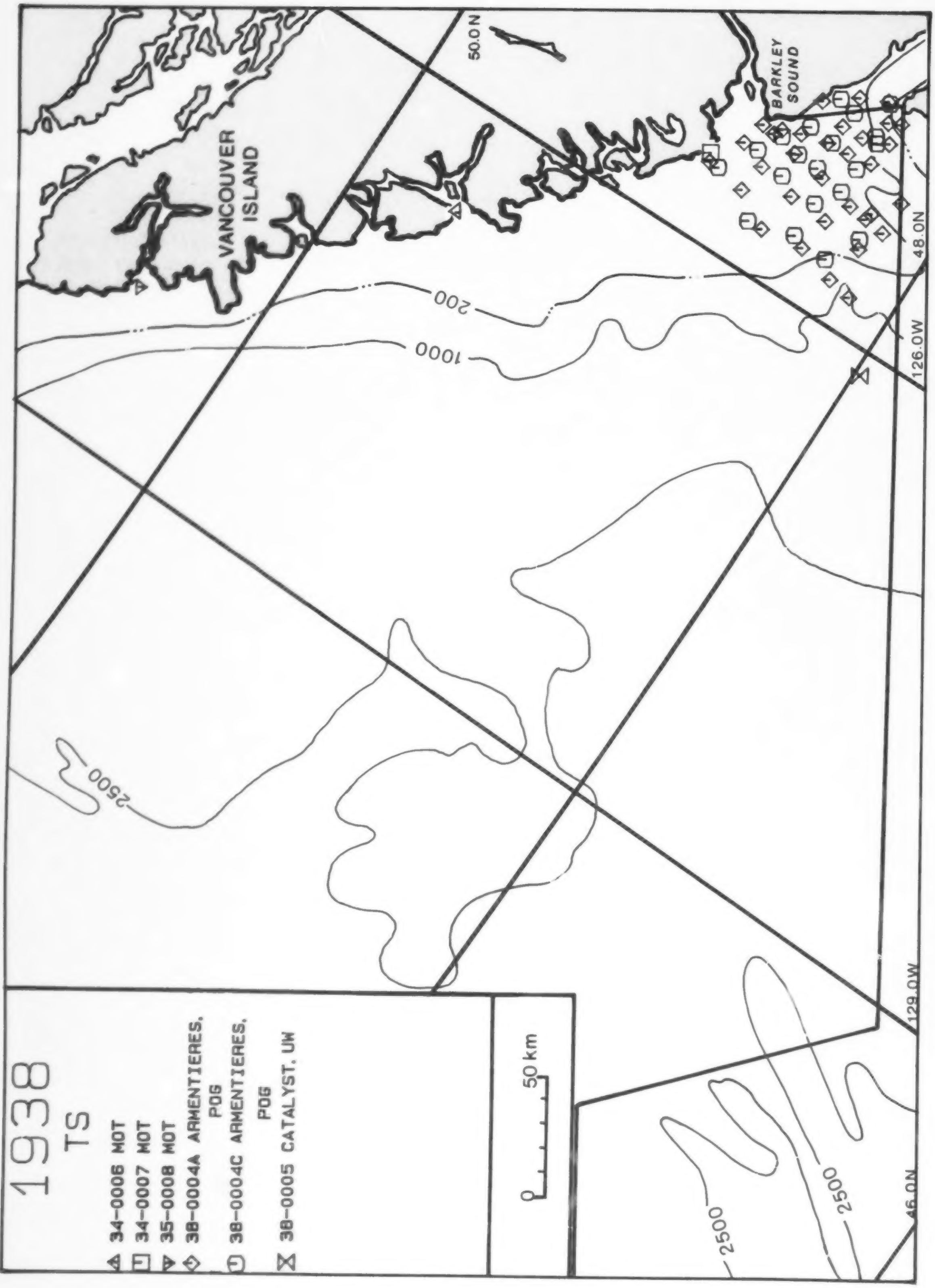

1936
TS
34-0006 MOT
34-0007 MOT
35-0008 MOT
36-0003A ARMENTIERES,POG
36-0003B ARMENTIERES,POG
36-0005 CATALYST. UW
36-0006 ARMENTIERES,POG
WL
05-0005 CHS
36-0008 CHS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

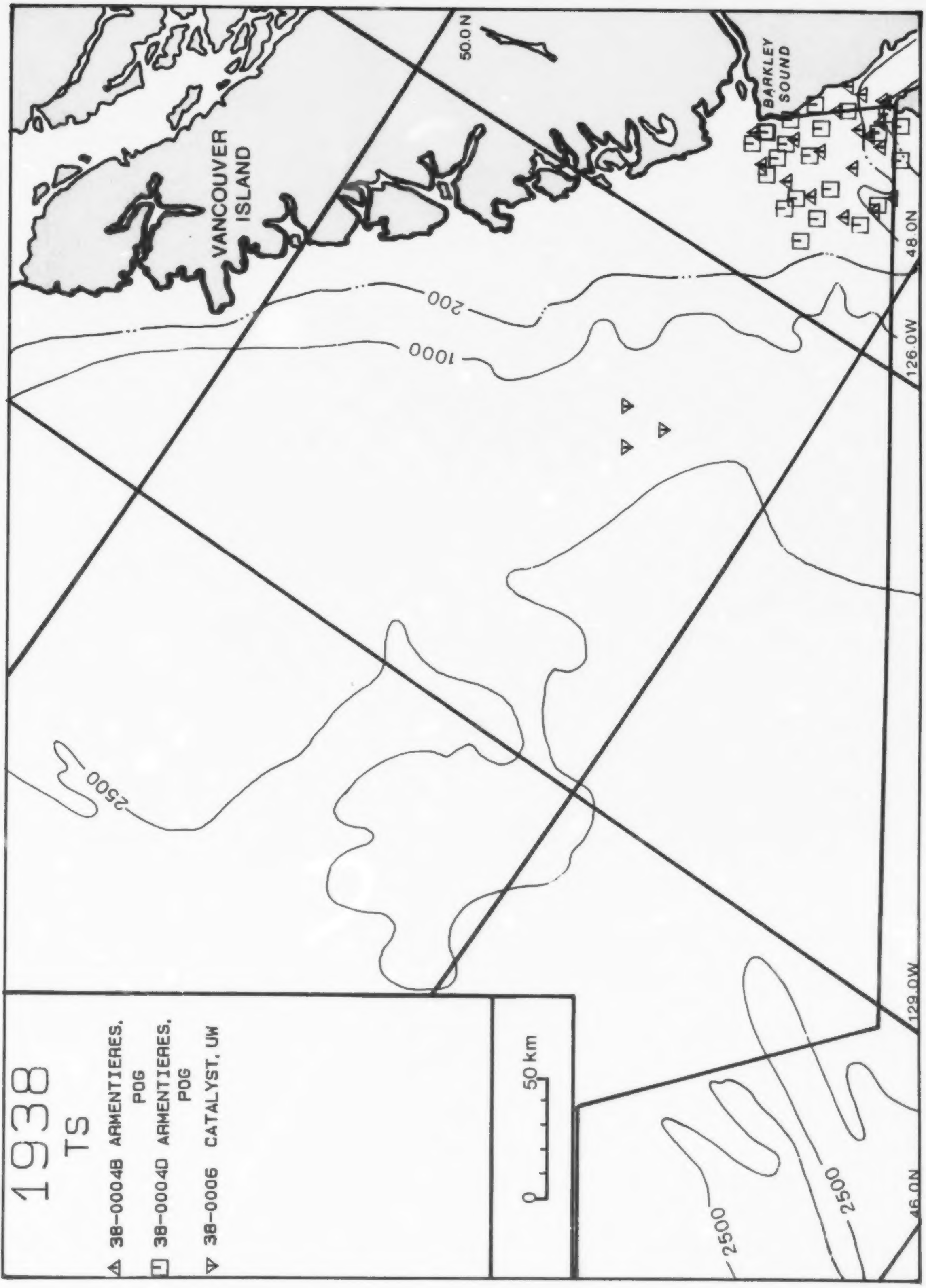

140.0
1000 m
2000 m
3000 m
0
100 km
1937
TS
△ 34-0002 MOT
☐ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
○ 36-0004 MOT
⧗ 37-0004 CATALYST, POG
◁ 37-0010 CATALYST, UW
↑ 37-0011 ARMENTIERES, POG
✱ 37-0012 ARMENTIERES, POG
← 37-0013 ARMENTIERES, POG
⋈ 37-0014 ARMENTIERES, POG
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
50.0
PACIFIC
OCEAN
135.0
130.0
125.0

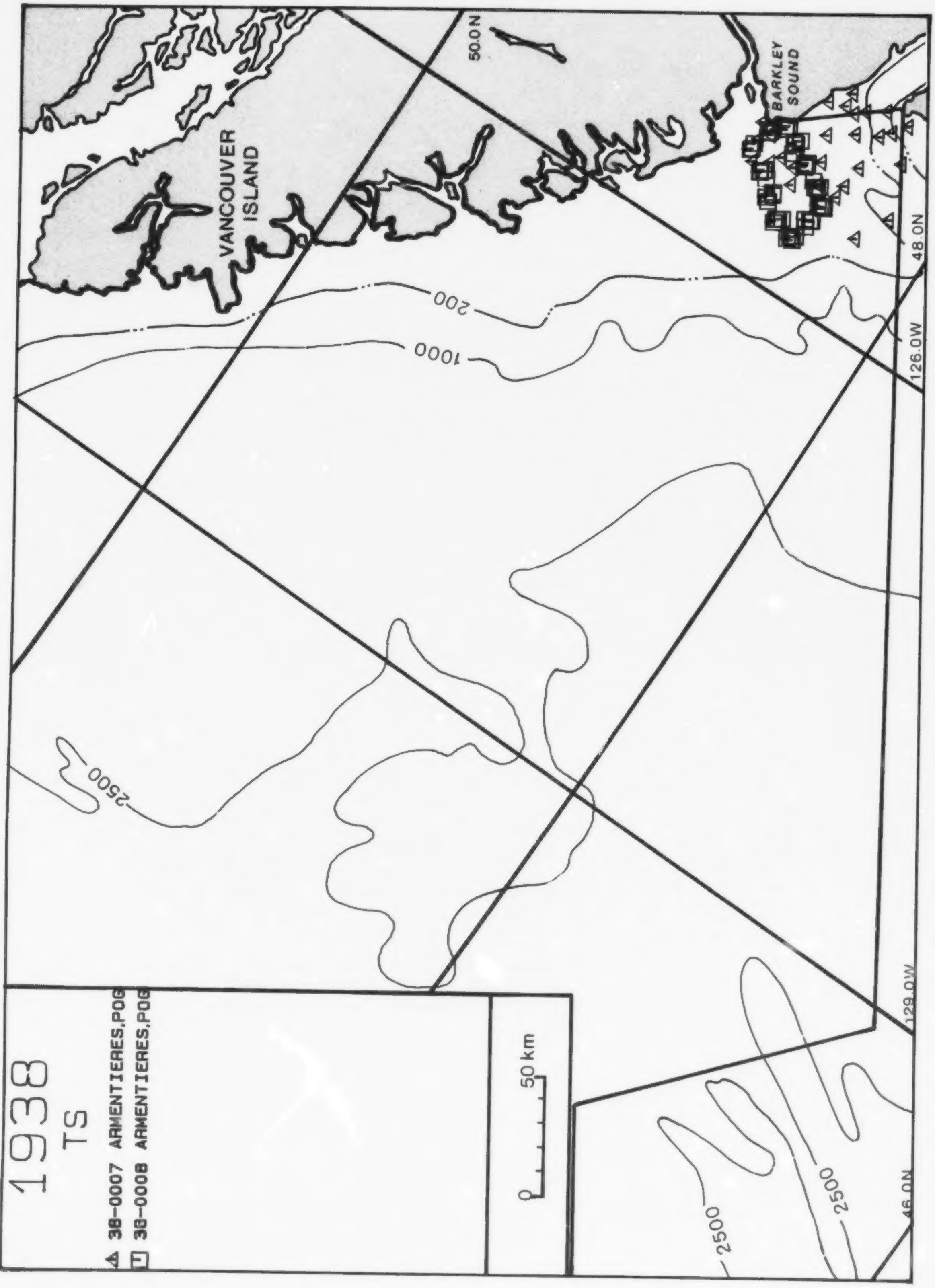

1937
TS
△ 34-0006 MOT
□ 34-0007 MOT
▽ 35-0008 MOT
◇ 37-0011 ARMENTIERES, POG
37-0014 ARMENTIERES, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

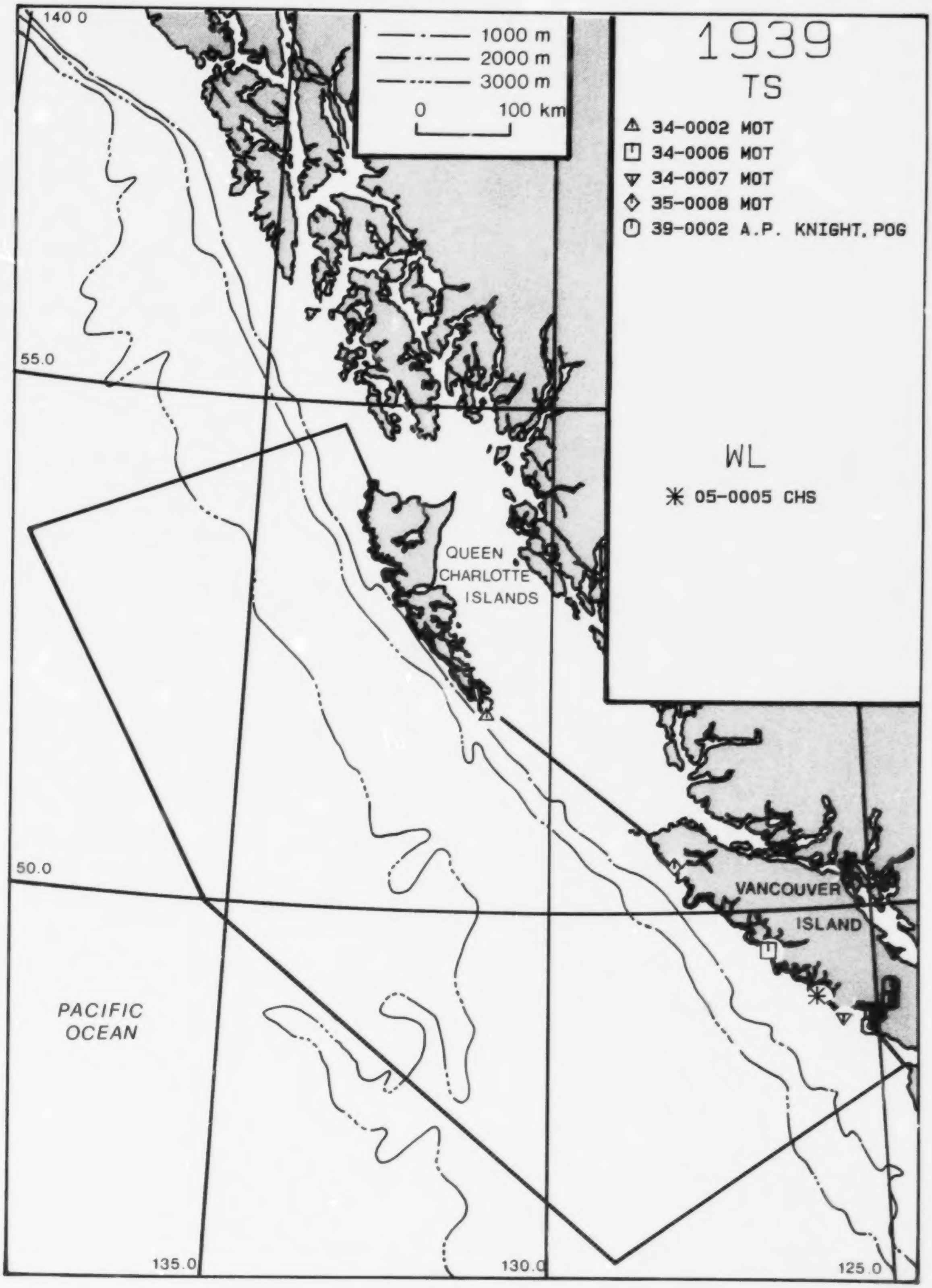

1937
TS
▲ 37-0010 CATALYST. UW
☐ 37-0012 ARMENTIERES, POG
▼ 37-0013 ARMENTIERES, POG
WL
✱ 05-0005 CHS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

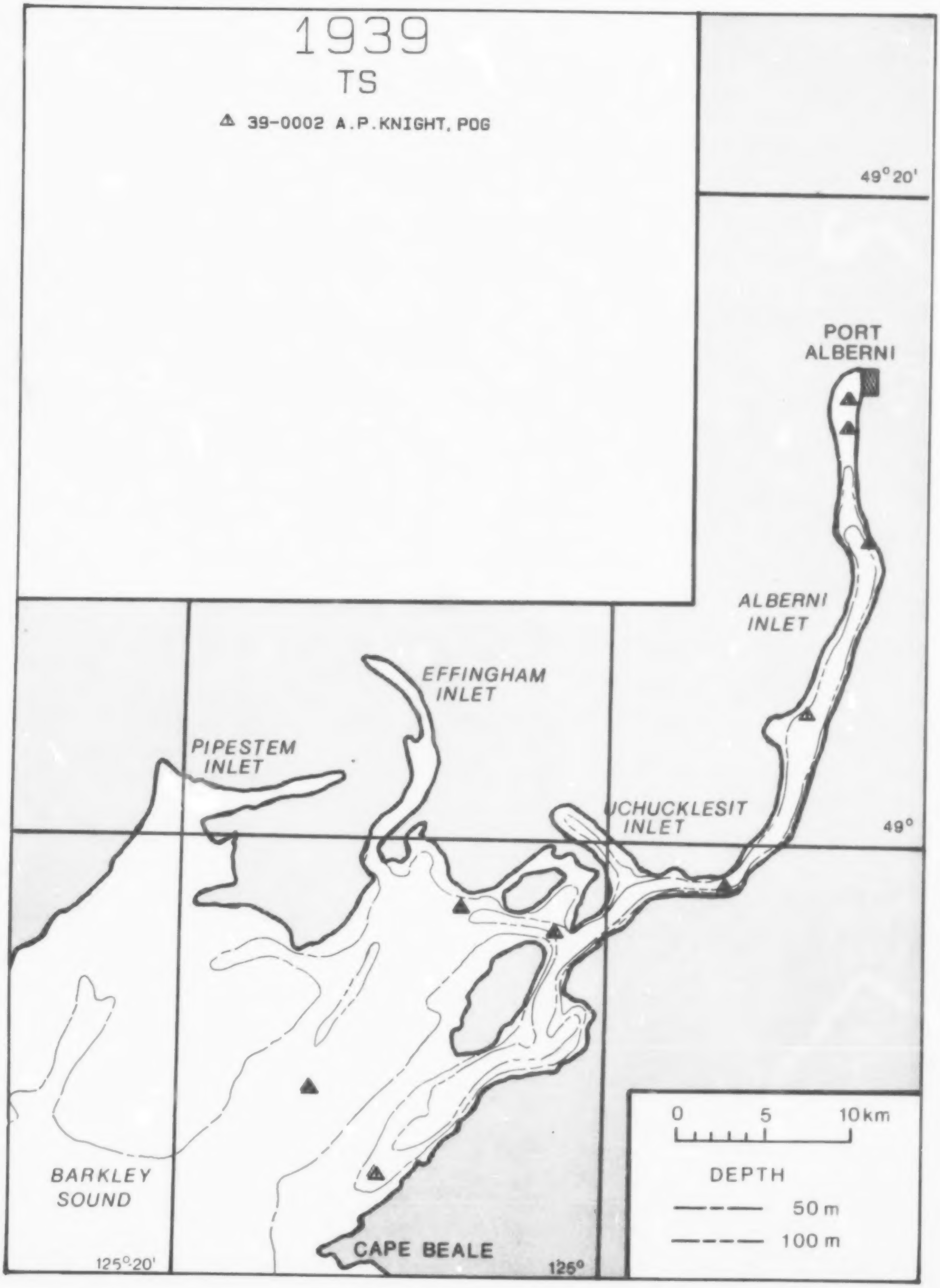

140.0
1000 m
2000 m
3000 m
0
100 km
1938
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
38-0002 AMLAC, POG
38-0004A ARMENTIERES, POG
38-0004B ARMENTIERES, POG
38-0004C ARMENTIERES, POG
38-0004D ARMENTIERES, POG
38-0005 CATALYST, UW
38-0006 CATALYST, UW
38-0007 ARMENTIERES, POG
38-0008 ARMENTIERES, POG
38-0010 CATALYST, UW
WL
05-0005 CHS
38-0011 CHS
55.0
QUEEN CHARLOTTE ISLANDS
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

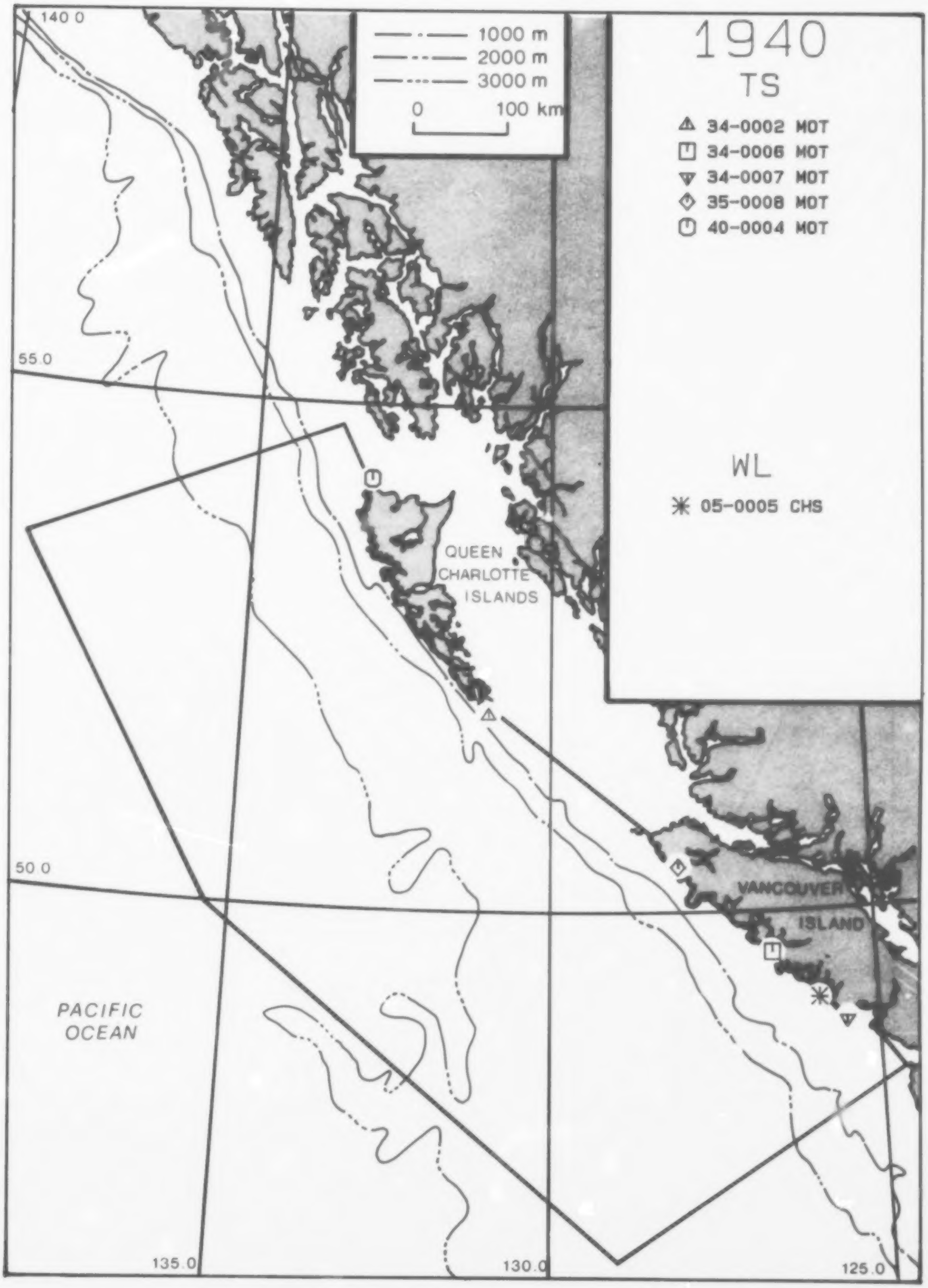

1938
TS
△ 34-0006 MOT
□ 34-0007 MOT
▽ 35-0008 MOT
◇ 38-0004A ARMENTIERES, POG
38-0004C ARMENTIERES, POG
⧖ 38-0005 CATALYST, UW
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

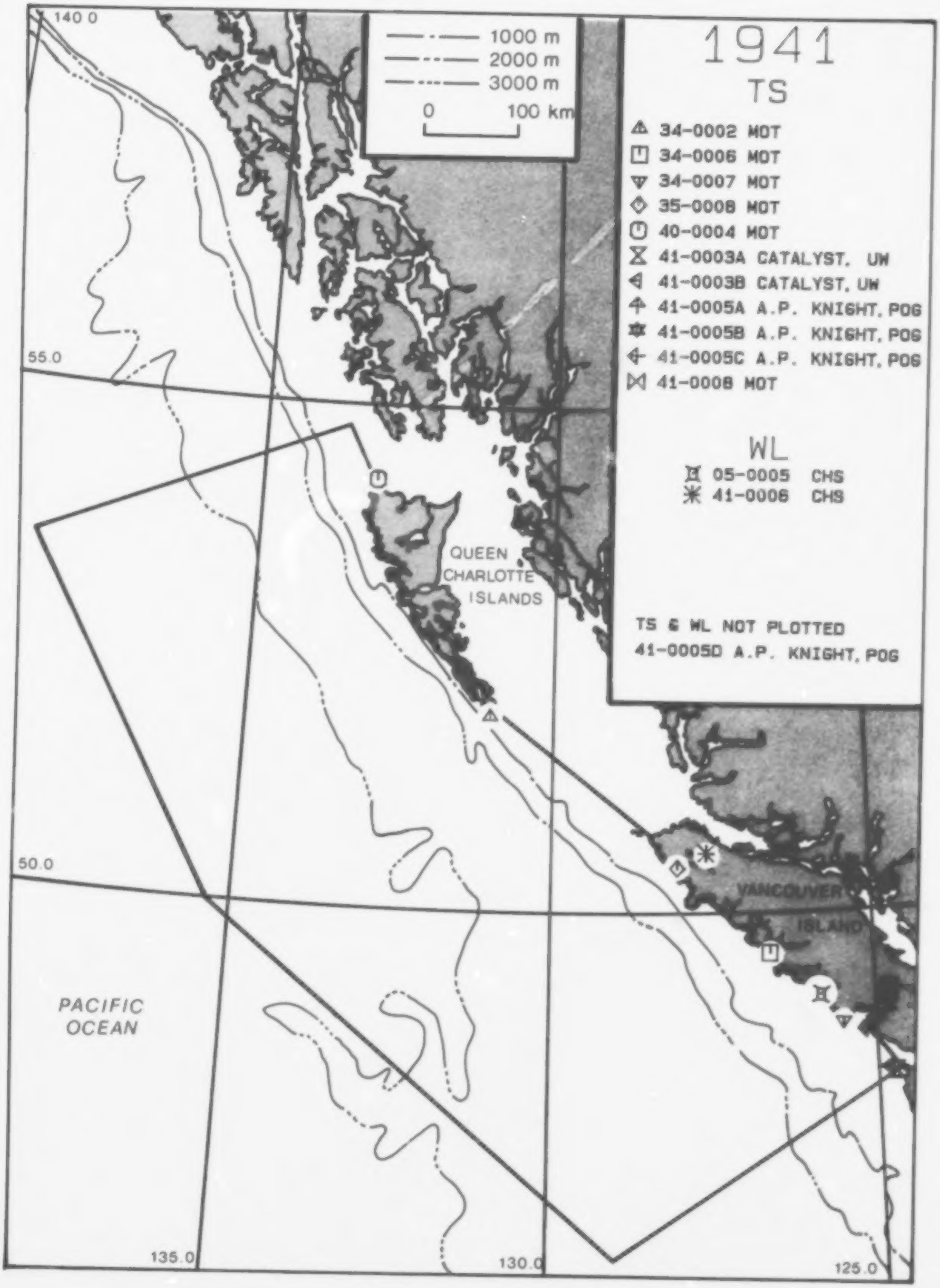

1938
Ts
△ 38-0004B ARMENTIERES. POG
⊡ 38-0004D ARMENTIERES. POG
▽ 38-0006 CATALYST. UW
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

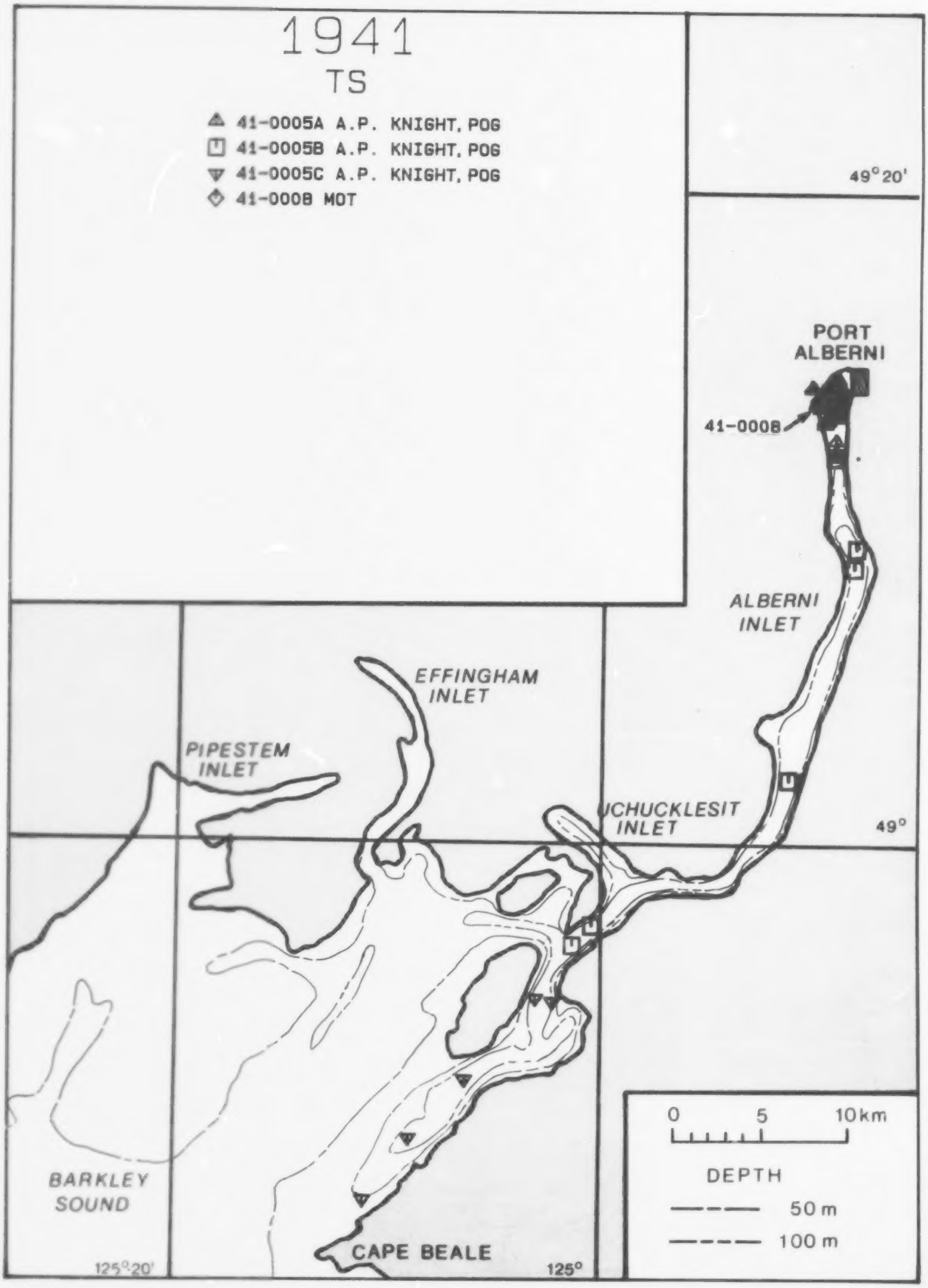

1938
TS
38-0007 ARMENTIERES,POG
38-0008 ARMENTIERES,POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

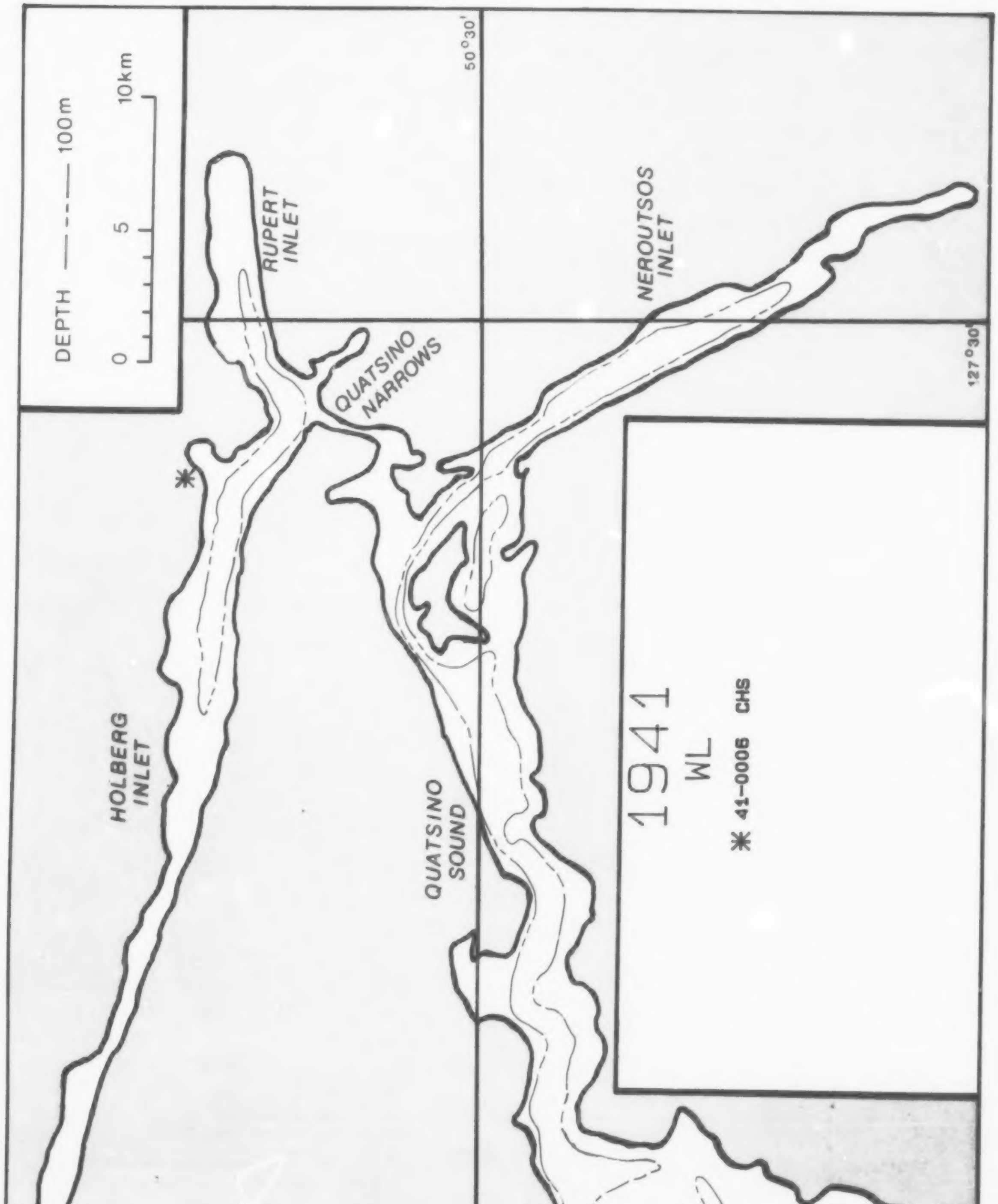

140.0
1000 m
2000 m
3000 m
0
100 km
1939
TS
△ 34-0002 MOT
⍞ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
⏀ 39-0002 A.P. KNIGHT, POG
WL
✱ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

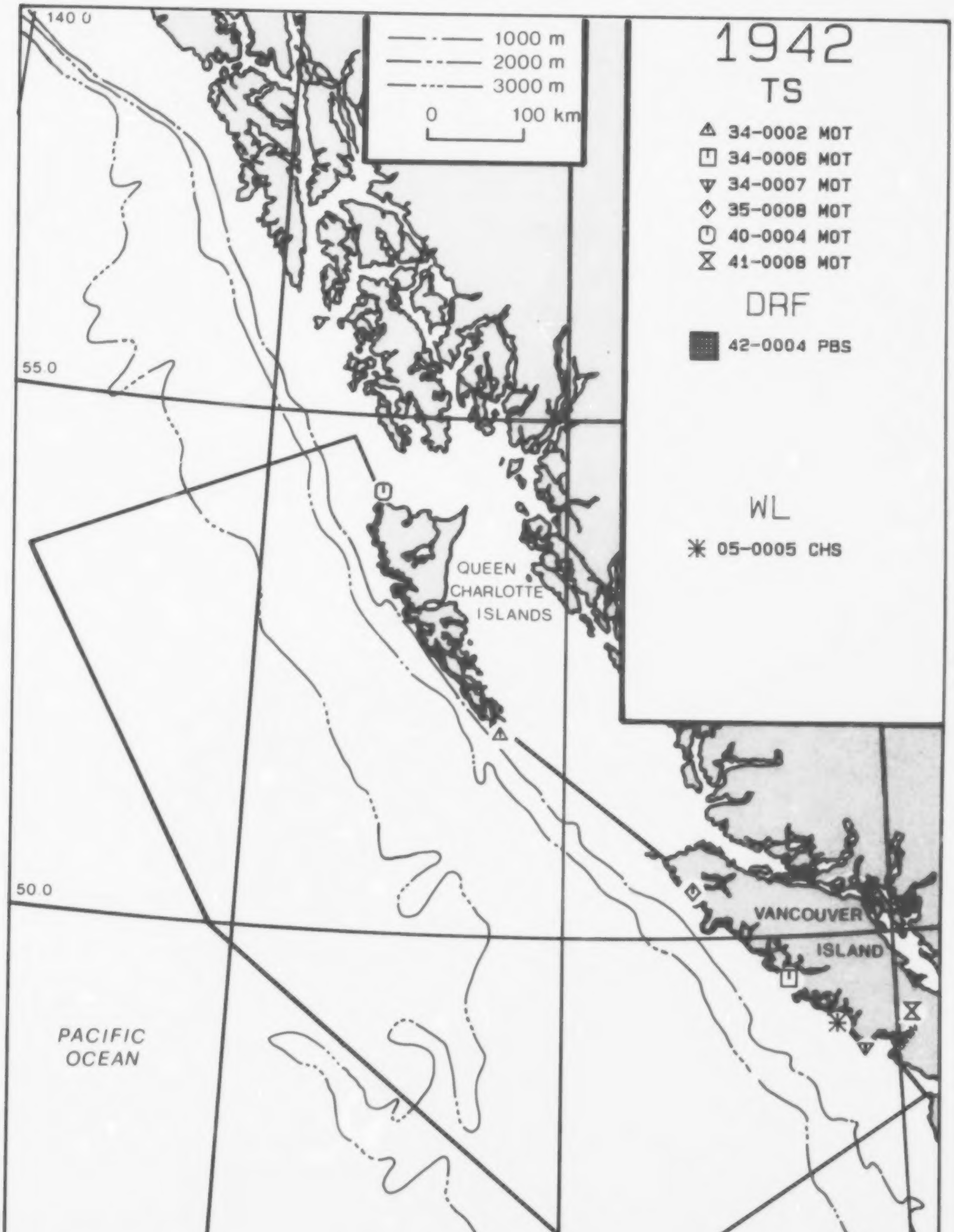

1939
TS
⚠ 39-0002 A.P.KNIGHT, POG
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

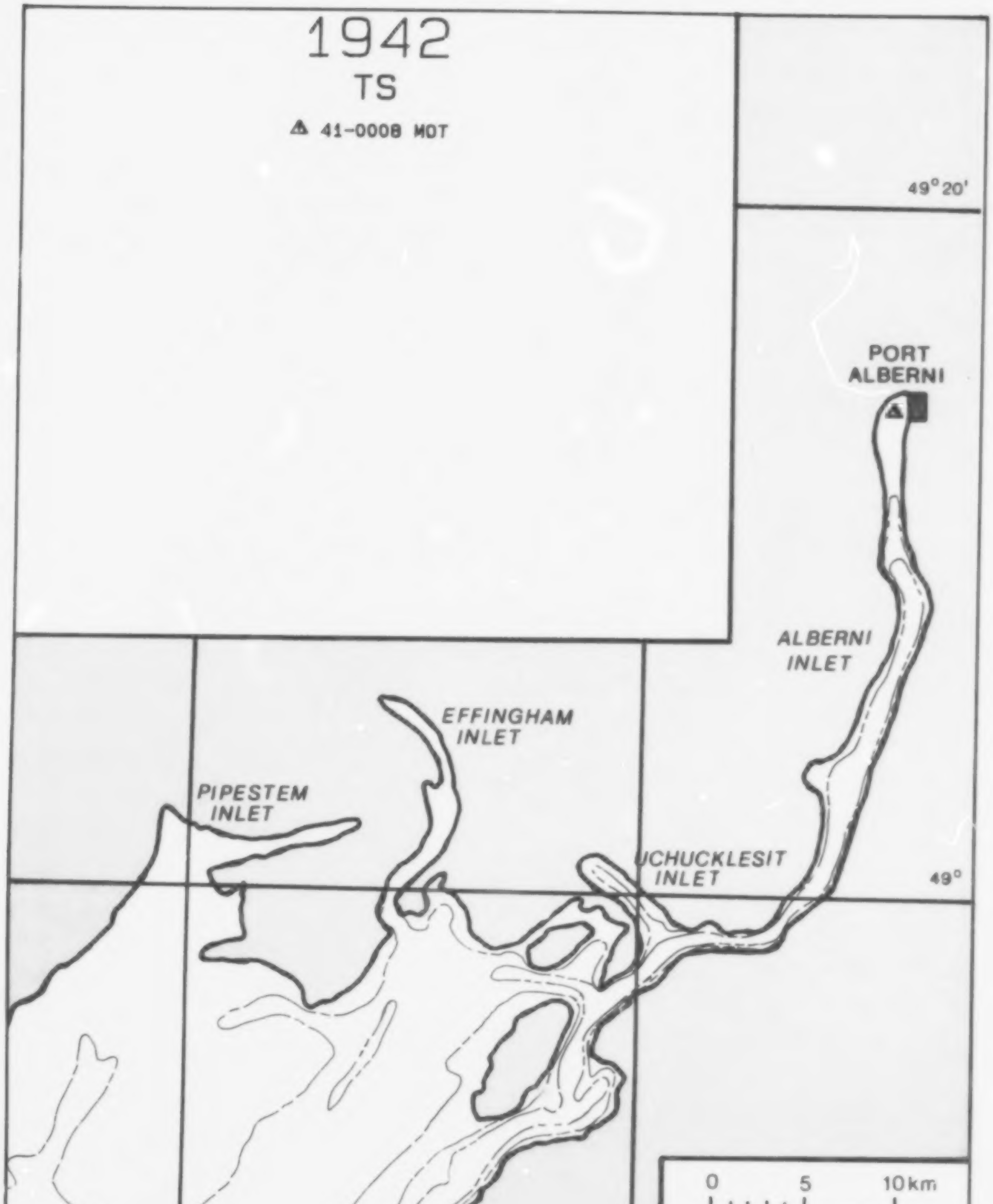

1940
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
WL
05-0005 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

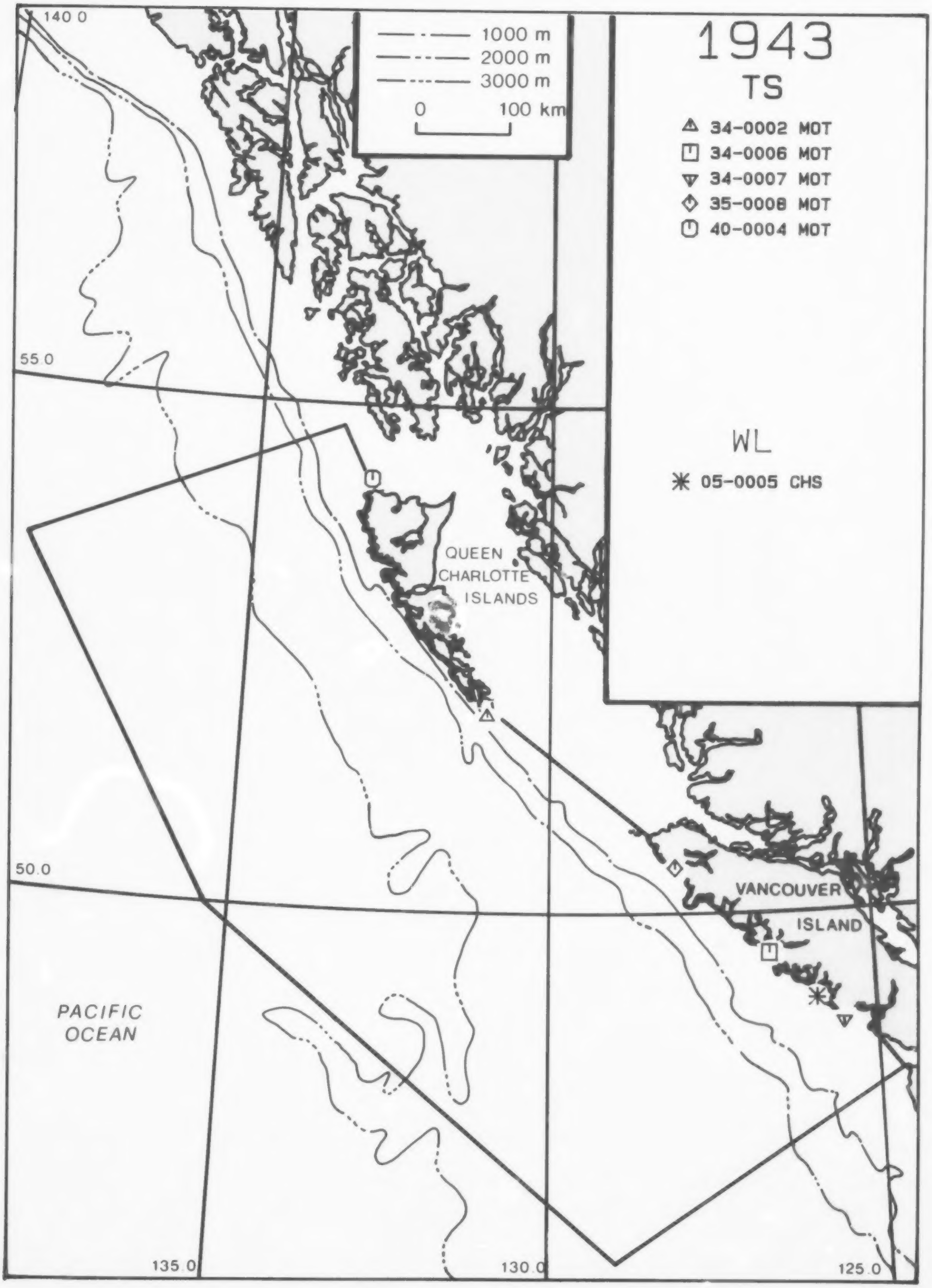

1000 m
2000 m
3000 m
0
100 km
1941
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
41-0003A CATALYST, UW
41-0003B CATALYST, UW
41-0005A A.P. KNIGHT, POG
41-0005B A.P. KNIGHT, POG
41-0005C A.P. KNIGHT, POG
41-0008 MOT
WL
05-0005 CHS
41-0006 CHS
TS & WL NOT PLOTTED
41-0005D A.P. KNIGHT, POG
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

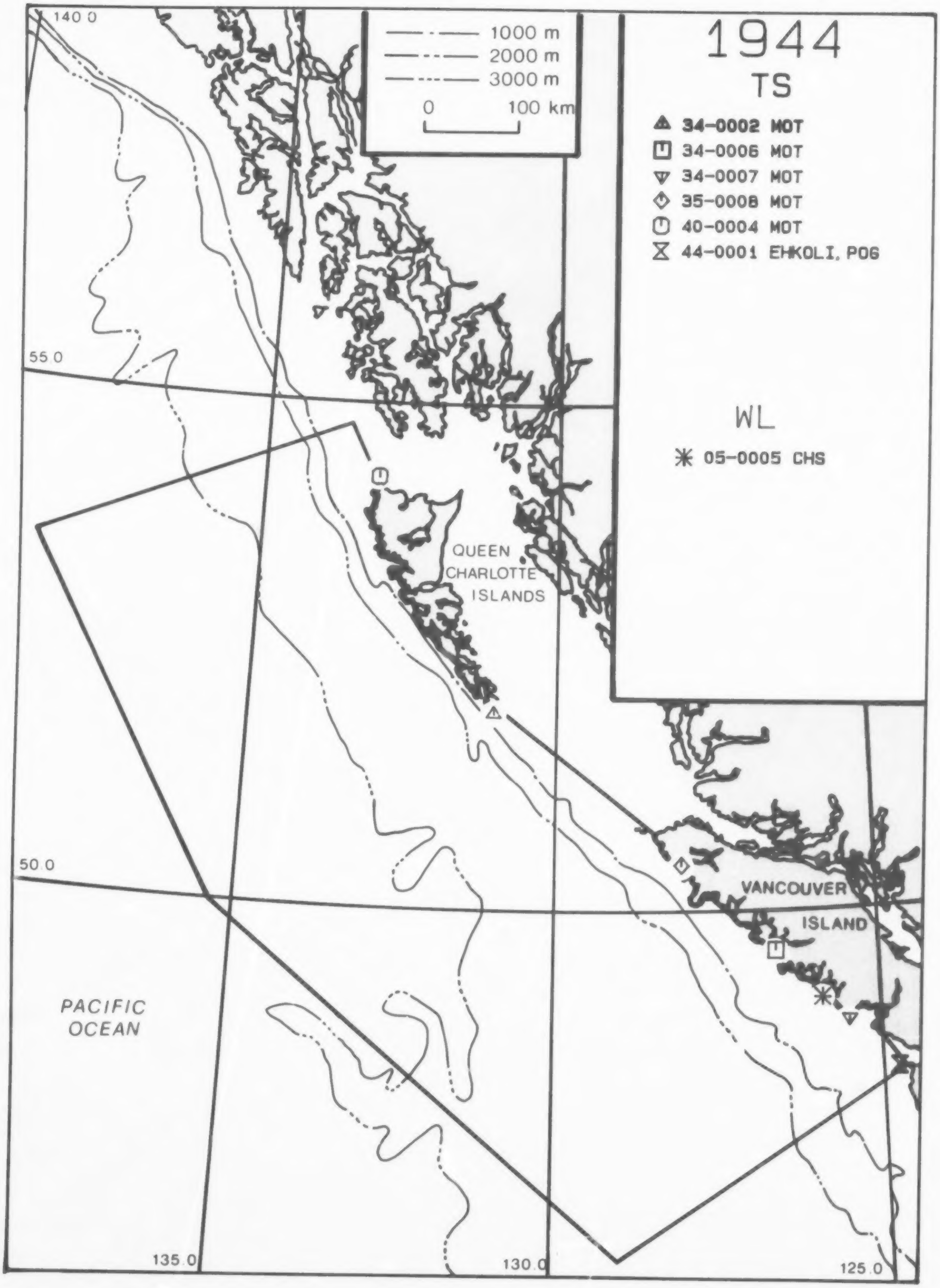

1941
TS
▲ 41-0005A A.P. KNIGHT, POG
◻ 41-0005B A.P. KNIGHT, POG
▼ 41-0005C A.P. KNIGHT, POG
◇ 41-0008 MOT
49°20'
PORT ALBERNI
41-0008
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

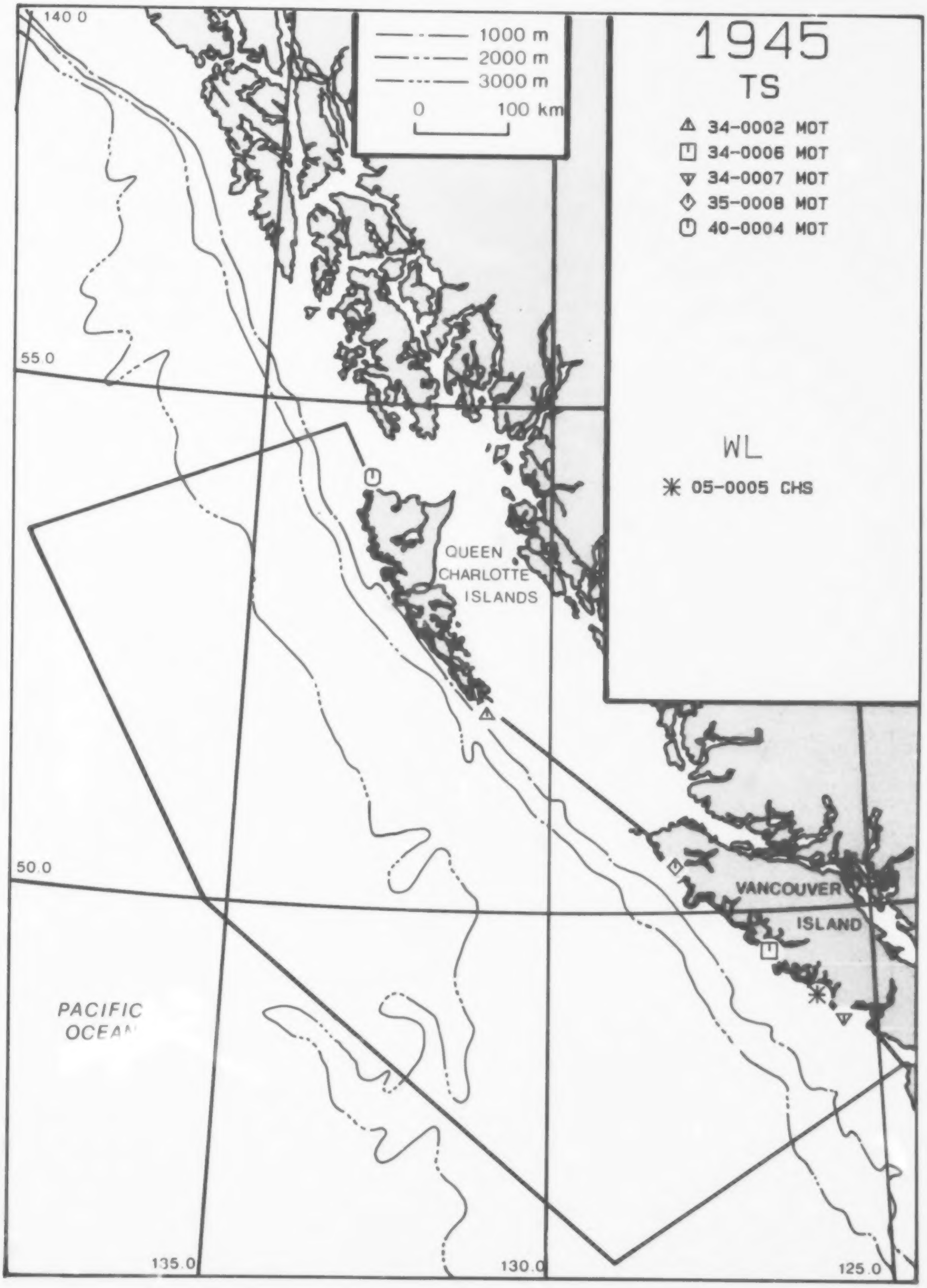

DEPTH —— 100m
0
5
10km
50°30'
127°30'
128°
RUPERT INLET
QUATSINO NARROWS
NEROUTSOS INLET
HOLBERG INLET
QUATSINO SOUND
1941
WL
✱ 41-0006 CHS

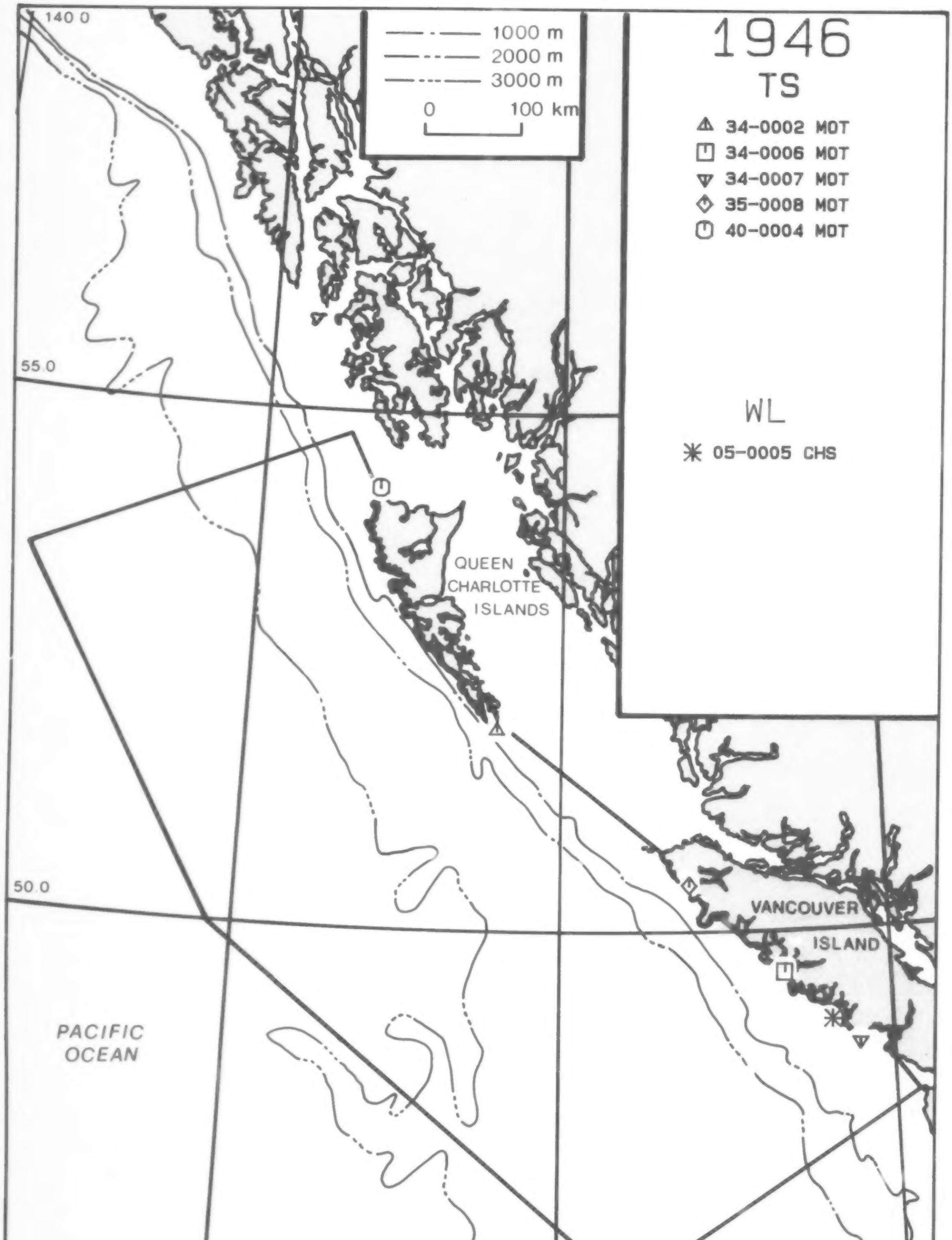

140.0
1000 m
2000 m
3000 m
0
100 km
1942
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
41-0008 MOT
DRF
42-0004 PBS
WL
05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

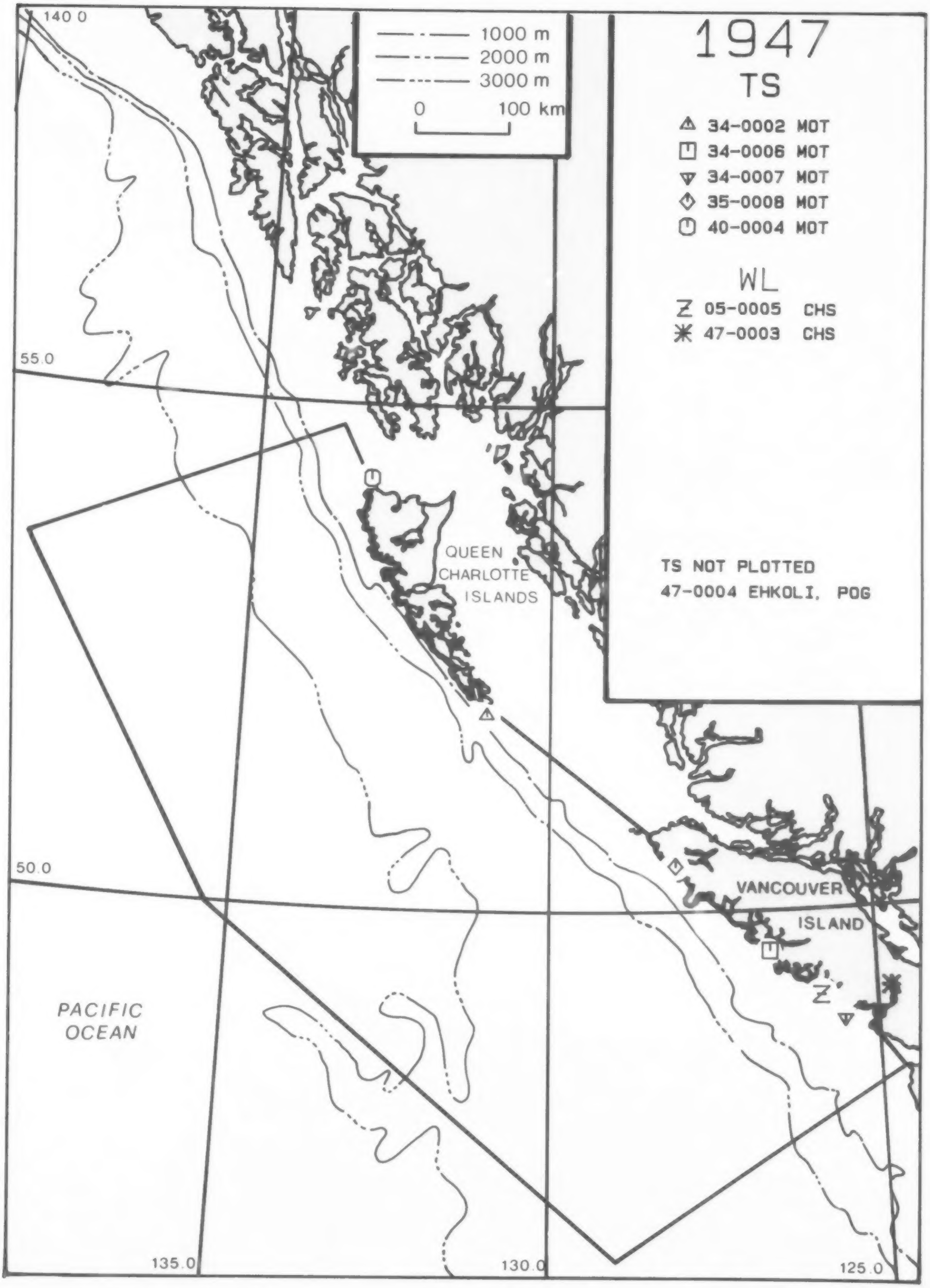

1942
TS
41-0008 MOT
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

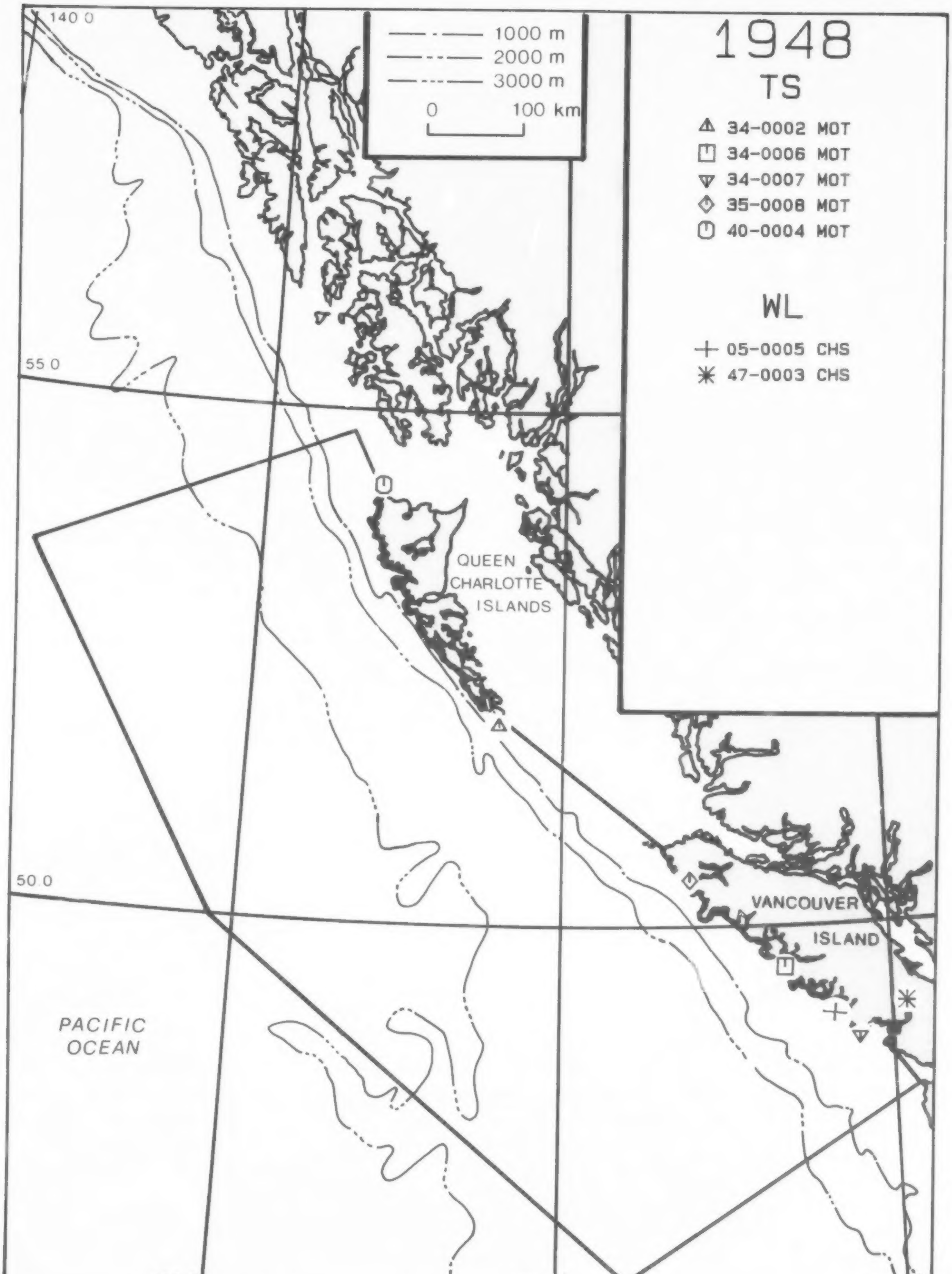

1000 m
2000 m
3000 m
0
100 km
1943
TS
△ 34-0002 MOT
□ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
○ 40-0004 MOT
WL
✳ 05-0005 CHS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

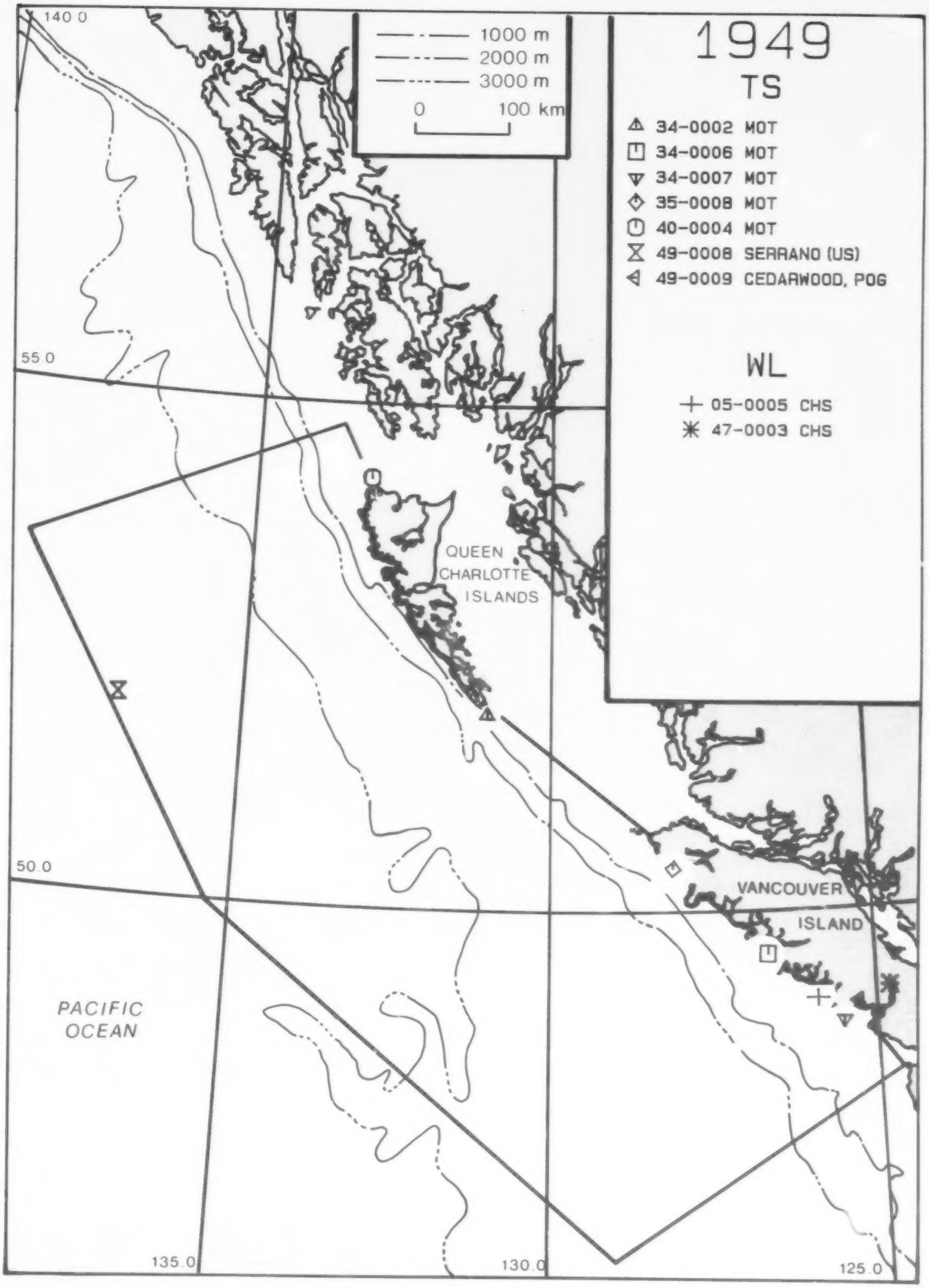

1944
TS
▲ 34-0002 MOT
◻ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
◯ 40-0004 MOT
⧗ 44-0001 EHKOLI, POG
WL
✳ 05-0005 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

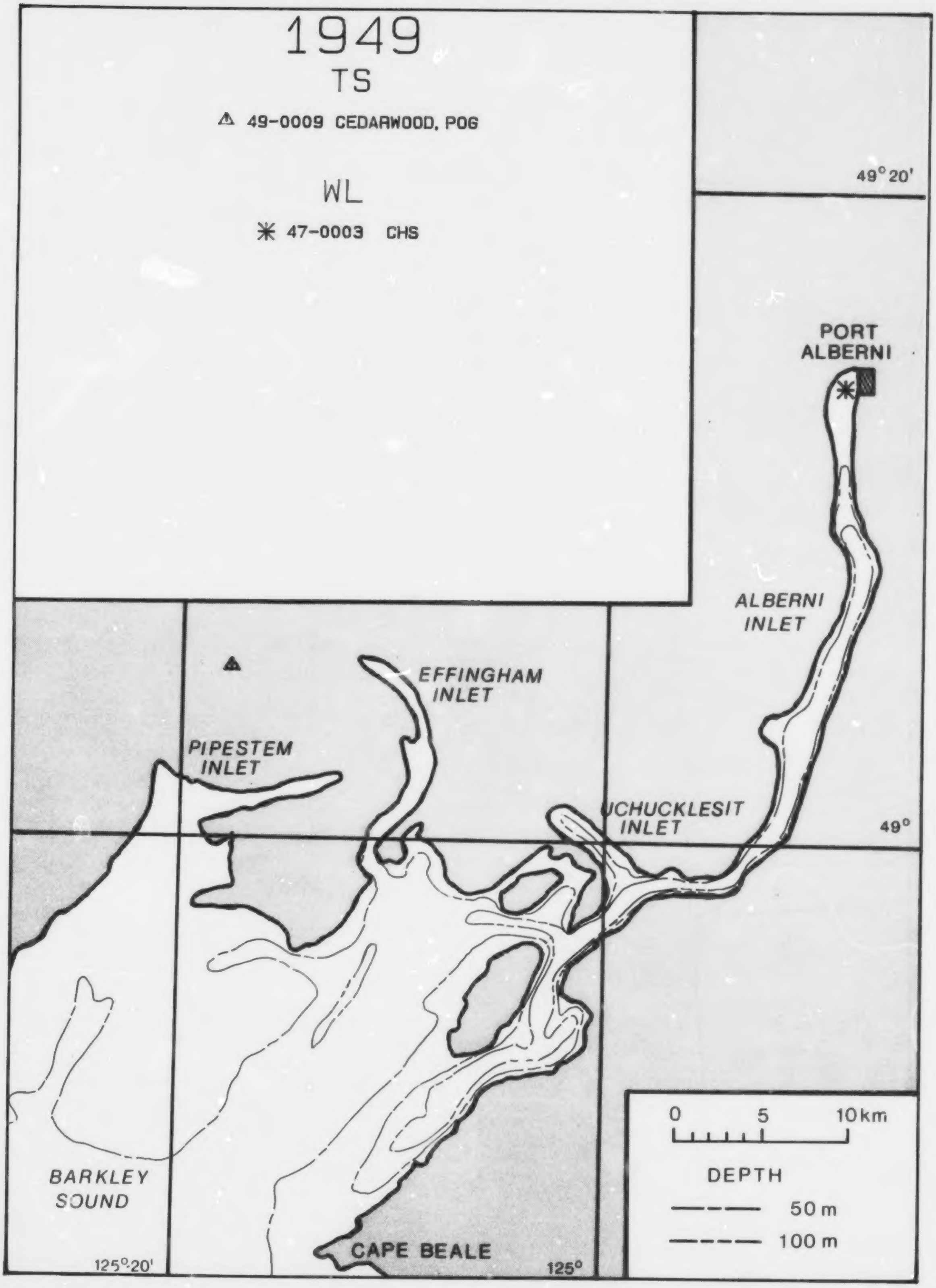

140.0
1000 m
2000 m
3000 m
0
100 km
1945
TS
△ 34-0002 MOT
□ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
○ 40-0004 MOT
55.0
WL
✳ 05-0005 CHS
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

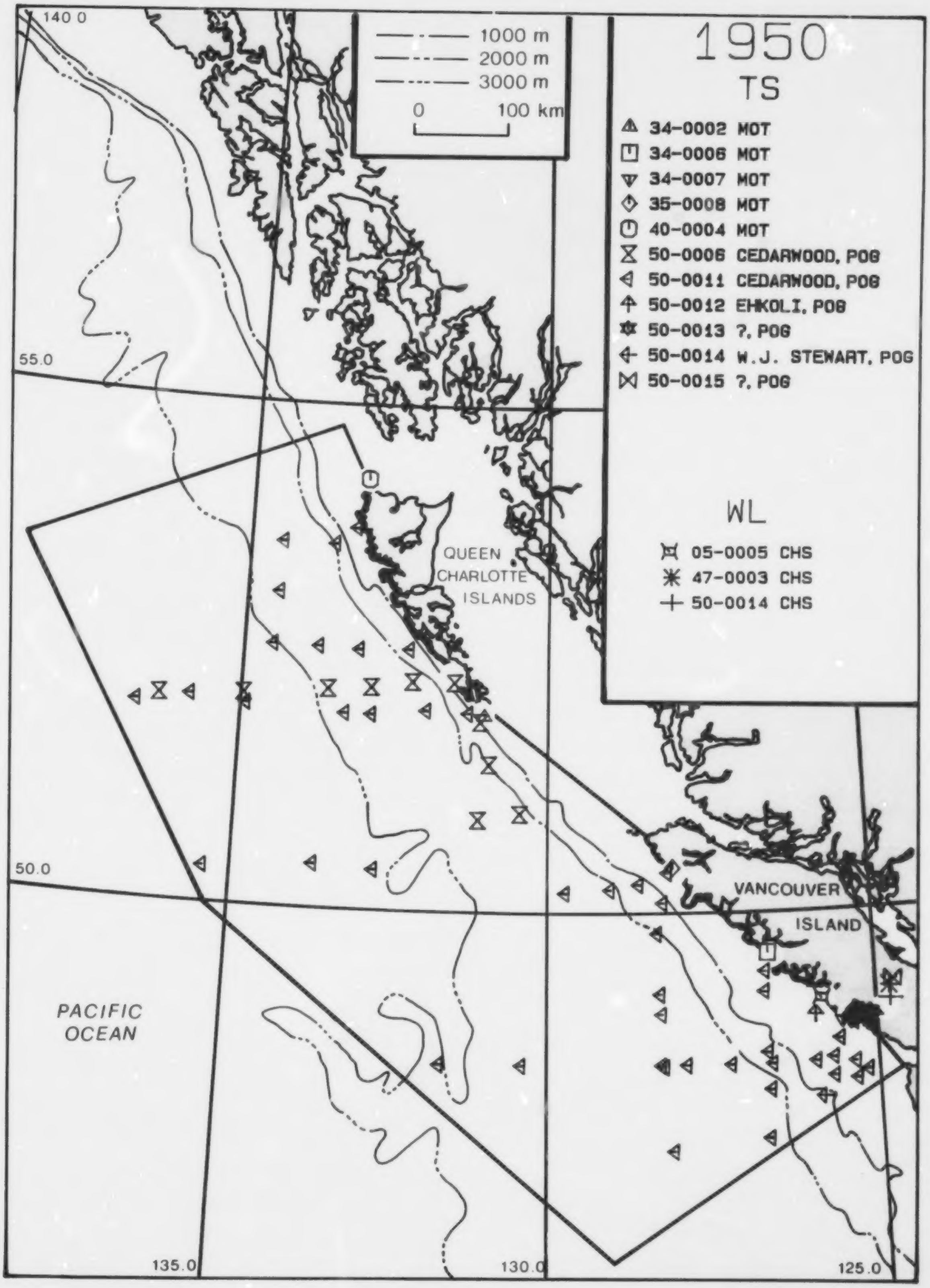

140.0
1000 m
2000 m
3000 m
0
100 km
1946
TS
△ 34-0002 MOT
□ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
○ 40-0004 MOT
WL
✳ 05-0005 CHS
55.0
QUEEN CHARLOTTE ISLANDS
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

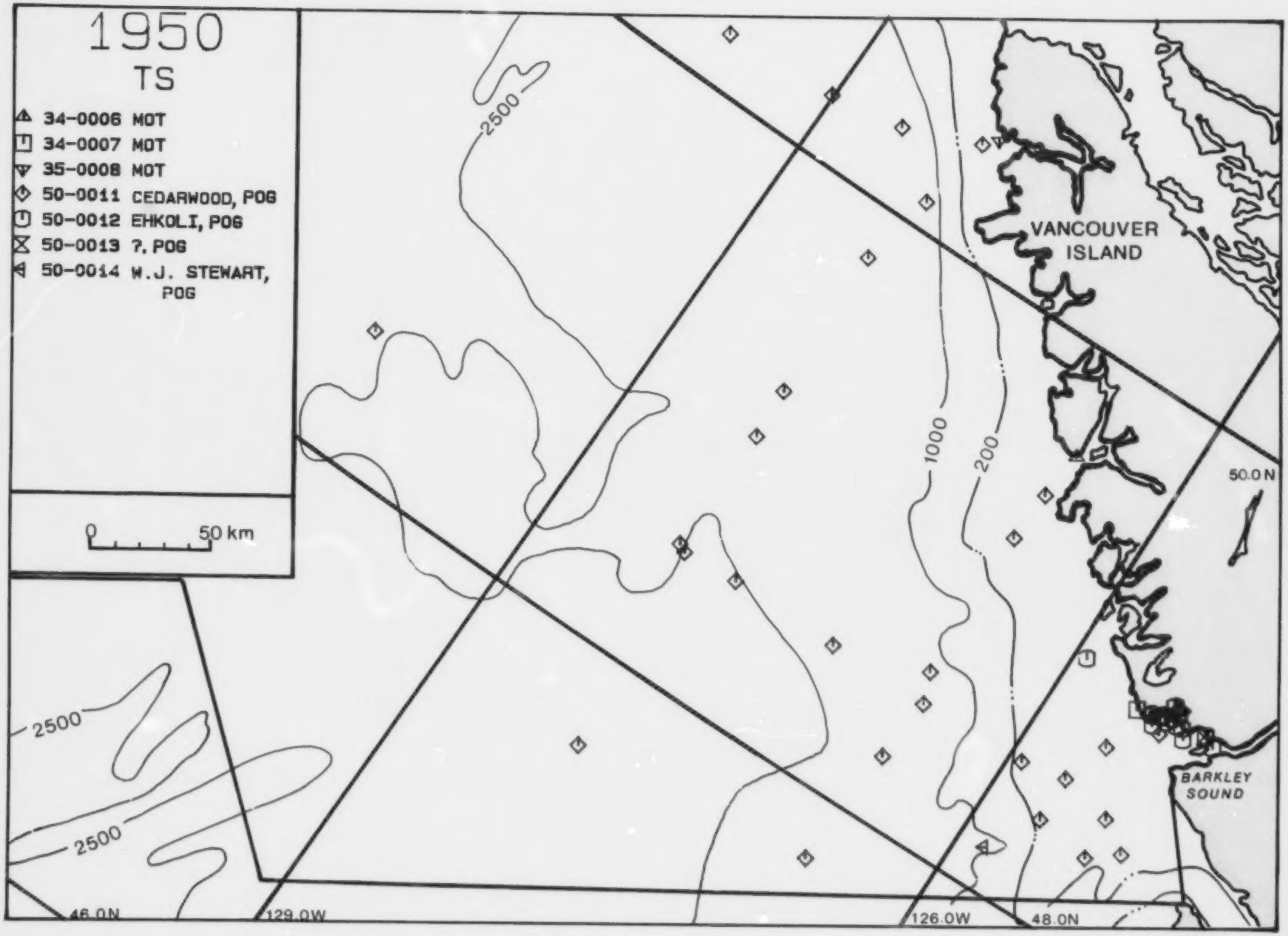

1000 m
2000 m
3000 m
0
100 km
1947
TS
△ 34-0002 MOT
□ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
○ 40-0004 MOT
WL
Z 05-0005 CHS
✳ 47-0003 CHS
TS NOT PLOTTED
47-0004 EHKOLI, POG
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

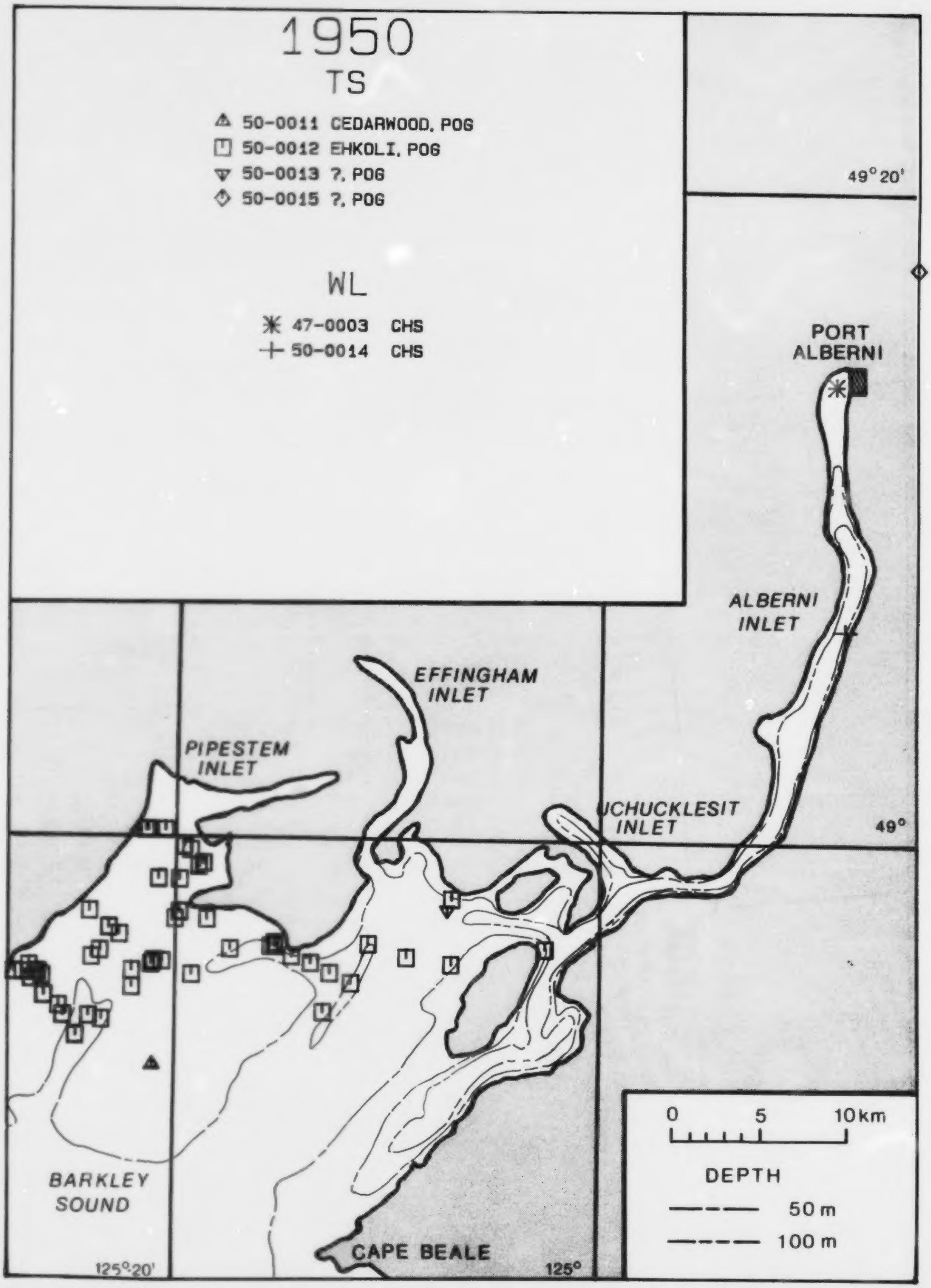

1948
TS
△ 34-0002 MOT
◻ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
○ 40-0004 MOT
WL
+ 05-0005 CHS
✳ 47-0003 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

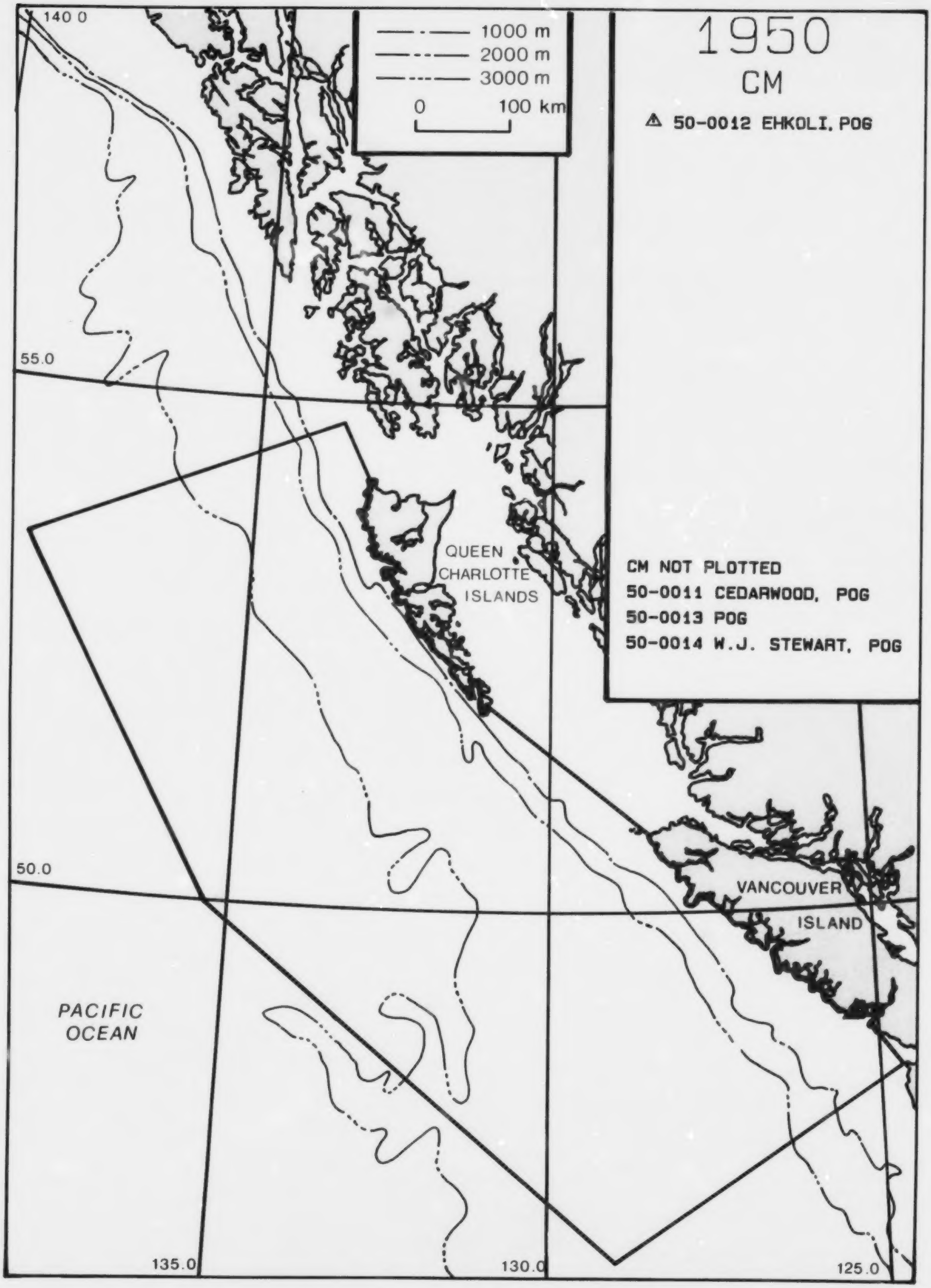

140.0
1000 m
2000 m
3000 m
0
100 km
1949
TS
△ 34-0002 MOT
◫ 34-0006 MOT
▽ 34-0007 MOT
◇ 35-0008 MOT
◯ 40-0004 MOT
⧗ 49-0008 SERRANO (US)
◁ 49-0009 CEDARWOOD, POG
WL
+ 05-0005 CHS
✳ 47-0003 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

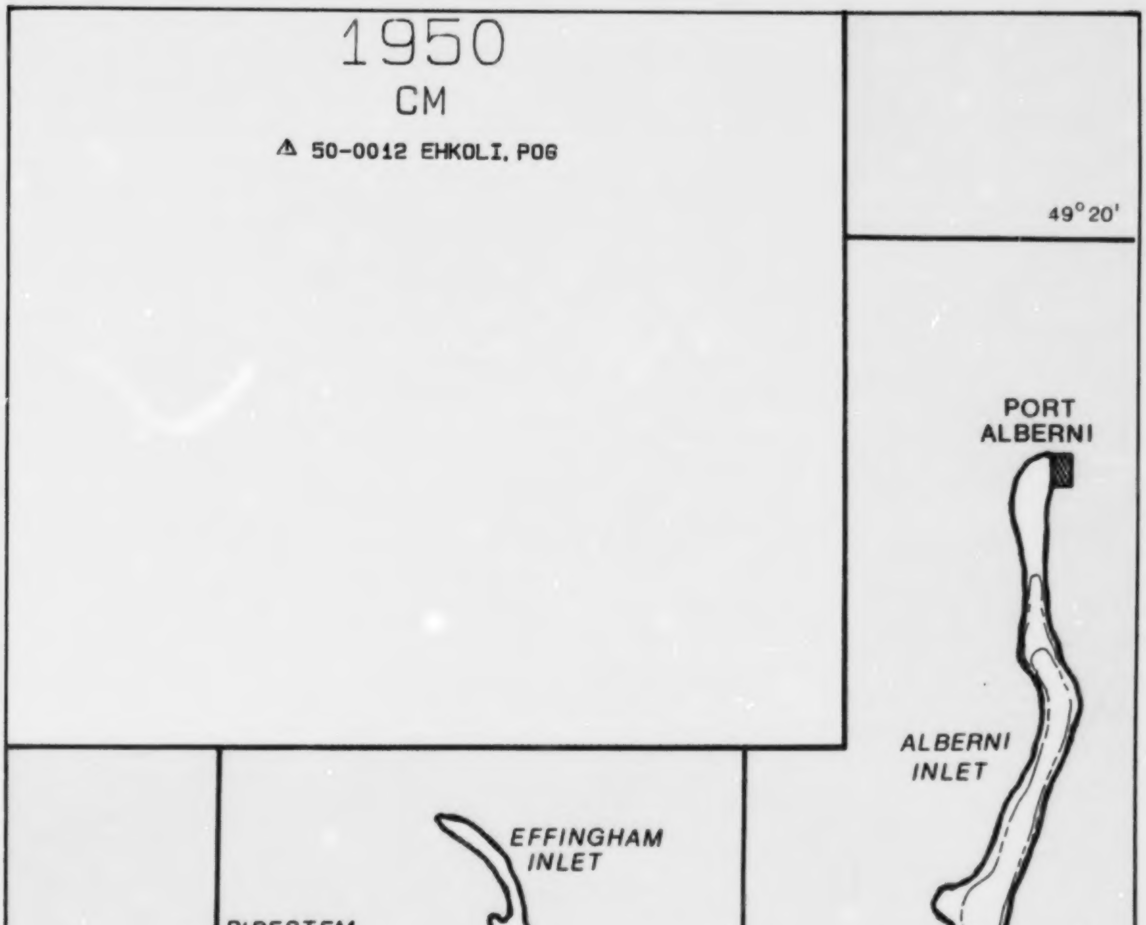

1949
TS
⚠ 49-0009 CEDARWOOD, POG
WL
✳ 47-0003 CHS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

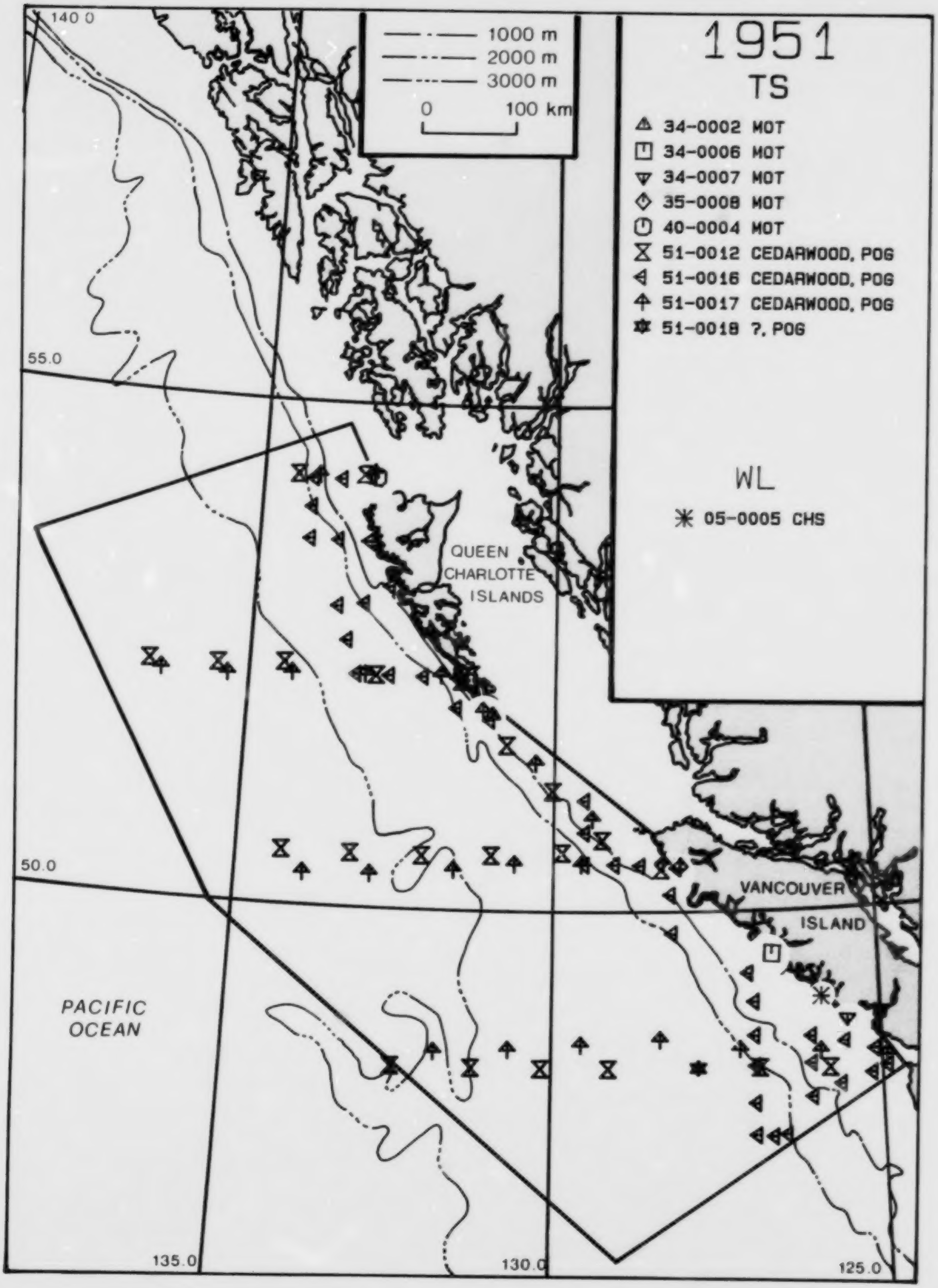

1950
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
50-0006 CEDARWOOD, POG
50-0011 CEDARWOOD, POG
50-0012 EHKOLI, POG
50-0013 ?, POG
50-0014 W.J. STEWART, POG
50-0015 ?, POG
WL
05-0005 CHS
47-0003 CHS
50-0014 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

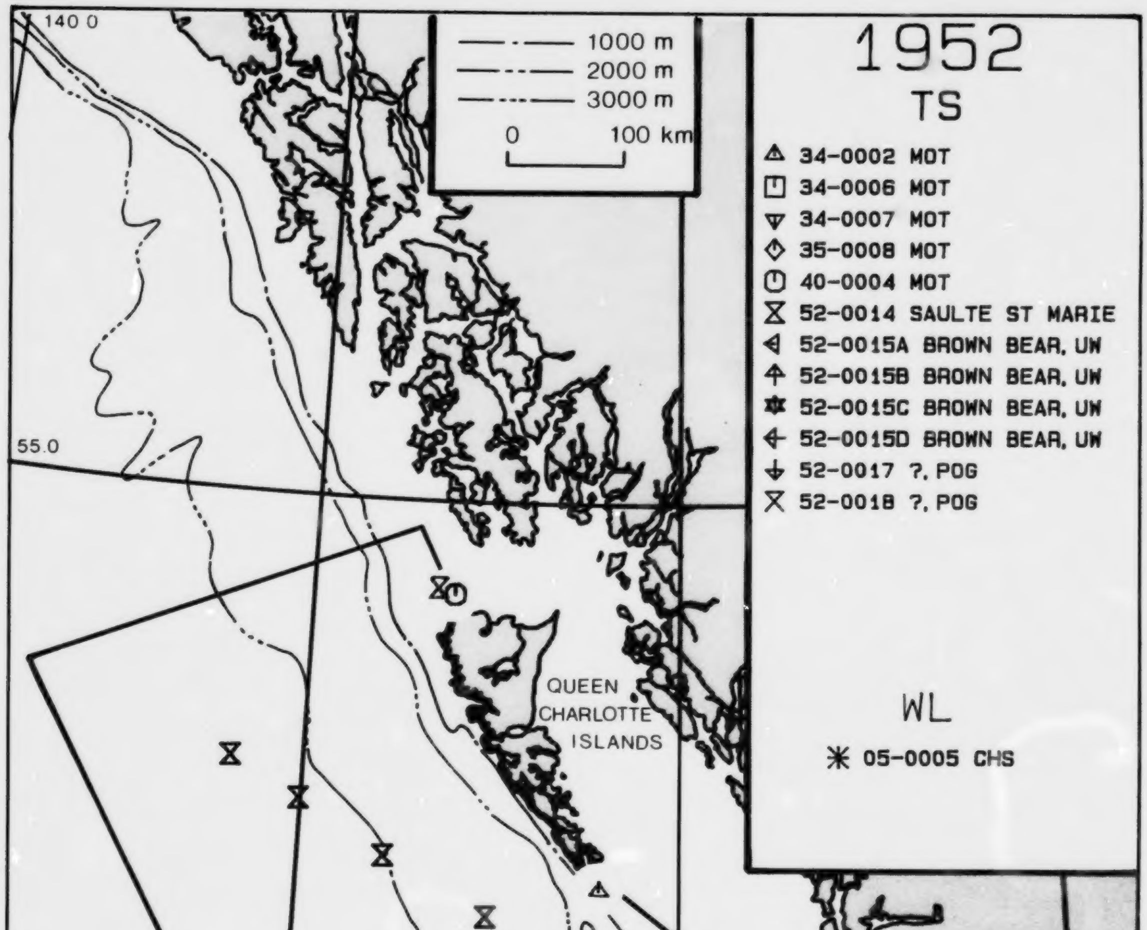

1950
TS
34-0006 MOT
34-0007 MOT
35-0008 MOT
50-0011 CEDARWOOD, POG
50-0012 EHKOLI, POG
50-0013 ?, POG
50-0014 W.J. STEWART, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
129.0W
126.0W
200
1000
2500
2500
2500

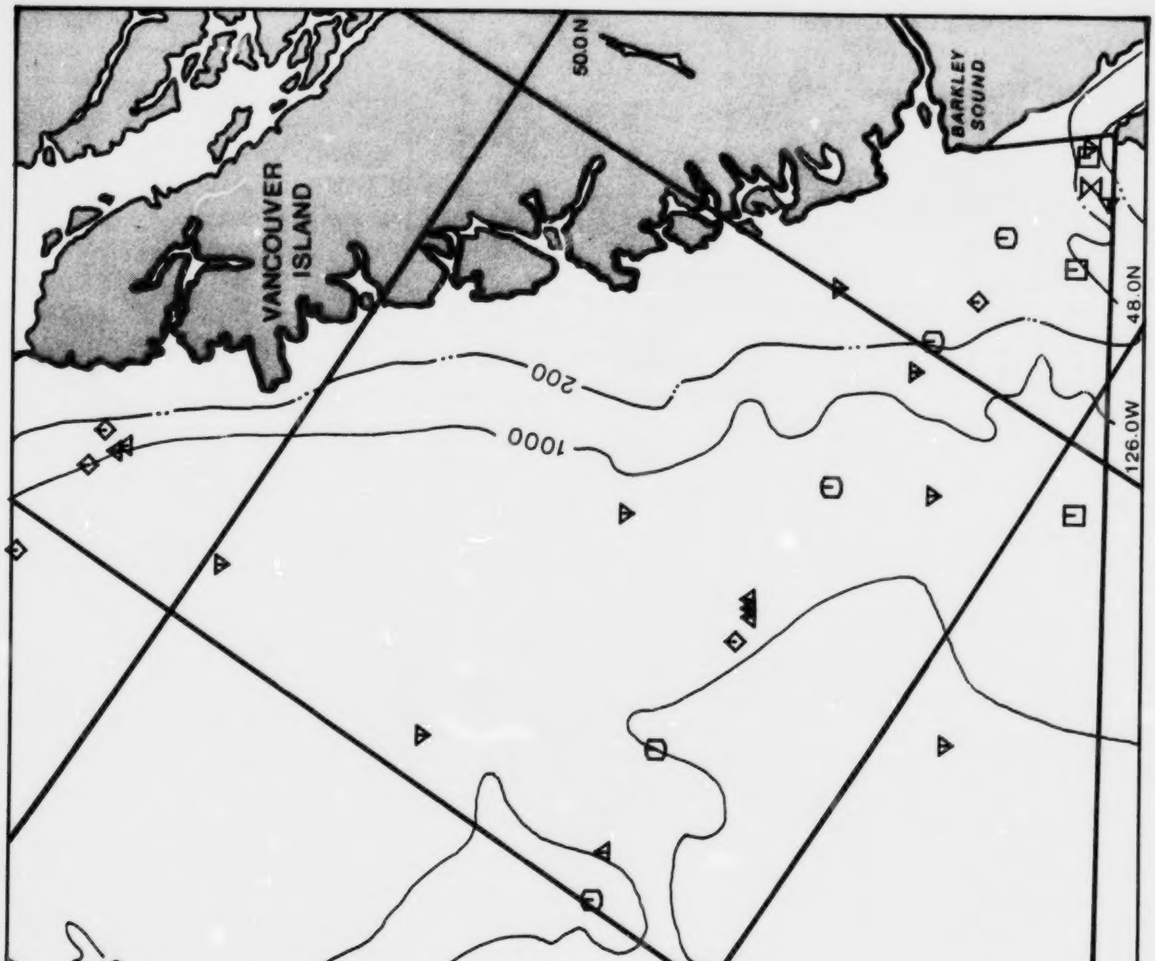

1950
TS
△ 50-0011 CEDARWOOD, POG
☐ 50-0012 EHKOLI, POG
▽ 50-0013 ?, POG
◇ 50-0015 ?, POG
WL
✳ 47-0003 CHS
+ 50-0014 CHS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

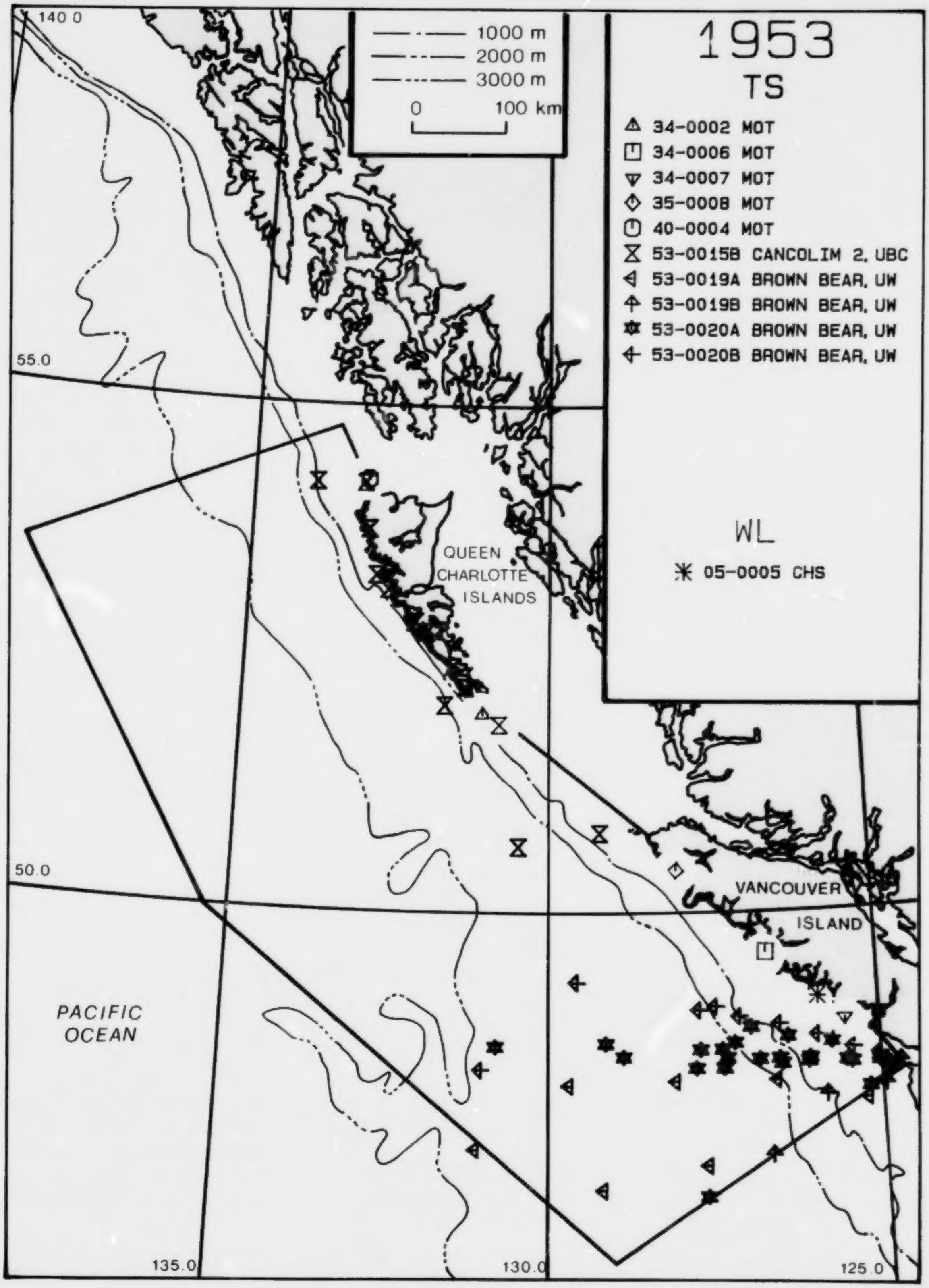

1950
CM
▲ 50-0012 EHKOLI, POG
1000 m
2000 m
3000 m
0
100 km
CM NOT PLOTTED
50-0011 CEDARWOOD, POG
50-0013 POG
50-0014 W.J. STEWART, POG
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

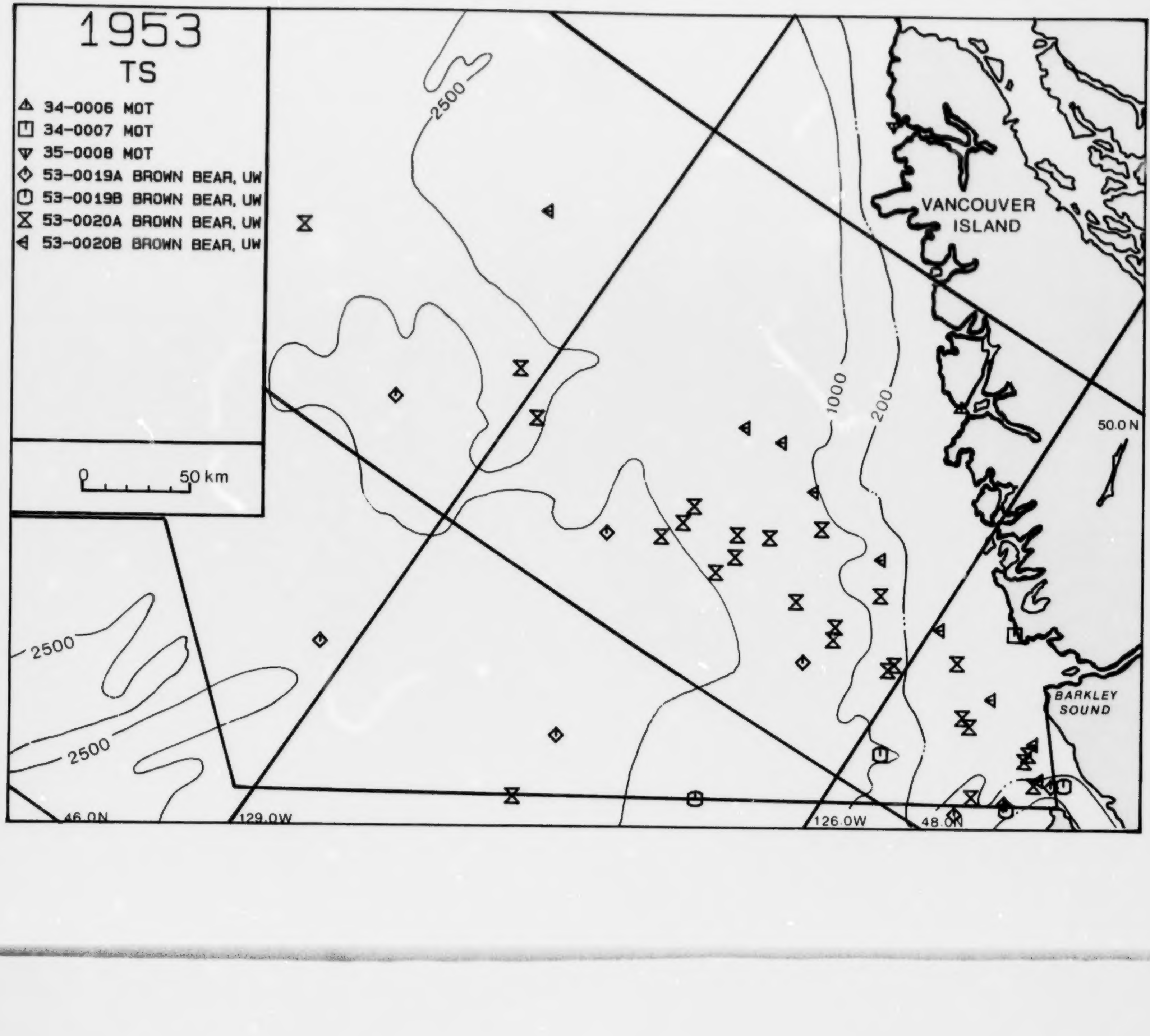

1950
CM
⚠ 50-0012 EHKOLI. POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

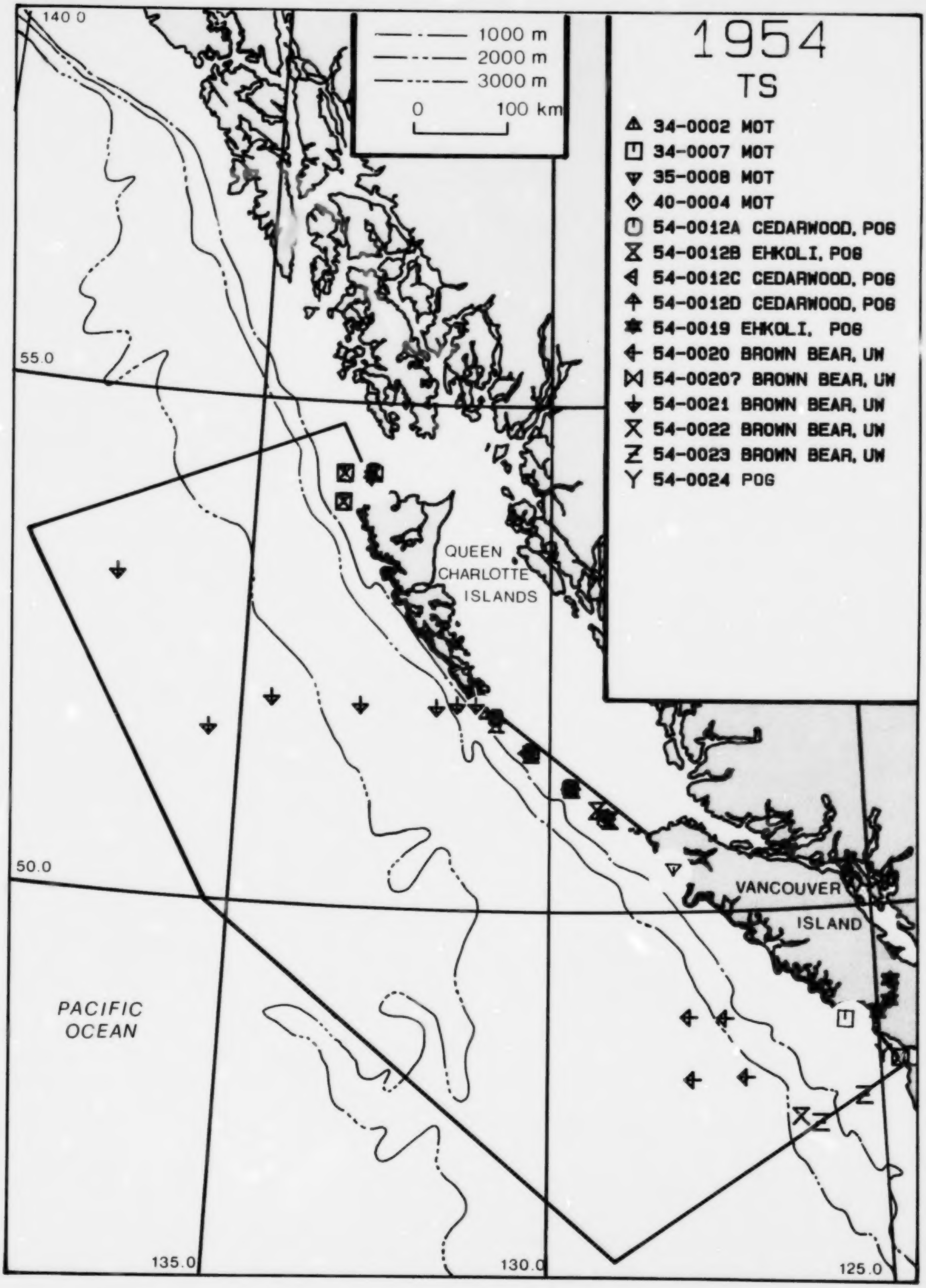

1951
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
51-0012 CEDARWOOD, POG
51-0016 CEDARWOOD, POG
51-0017 CEDARWOOD, POG
51-0018 ?, POG
WL
05-0005 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

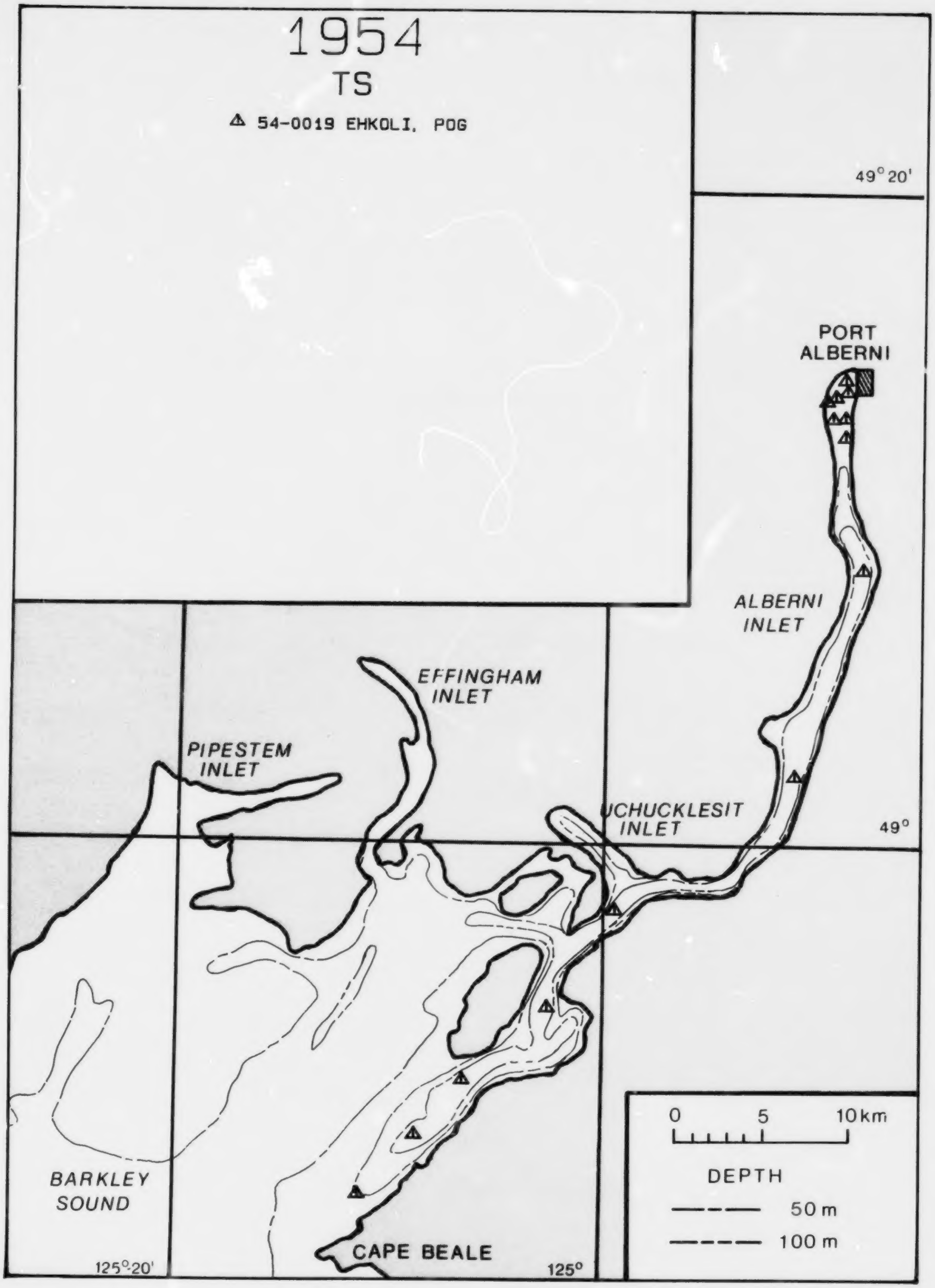

140.0
1000 m
2000 m
3000 m
0
100 km
1952
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
52-0014 SAULTE ST MARIE
52-0015A BROWN BEAR, UW
52-0015B BROWN BEAR, UW
52-0015C BROWN BEAR, UW
52-0015D BROWN BEAR, UW
52-0017 ?, POG
52-0018 ?, POG
55.0
QUEEN CHARLOTTE ISLANDS
WL
05-0005 CHS
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

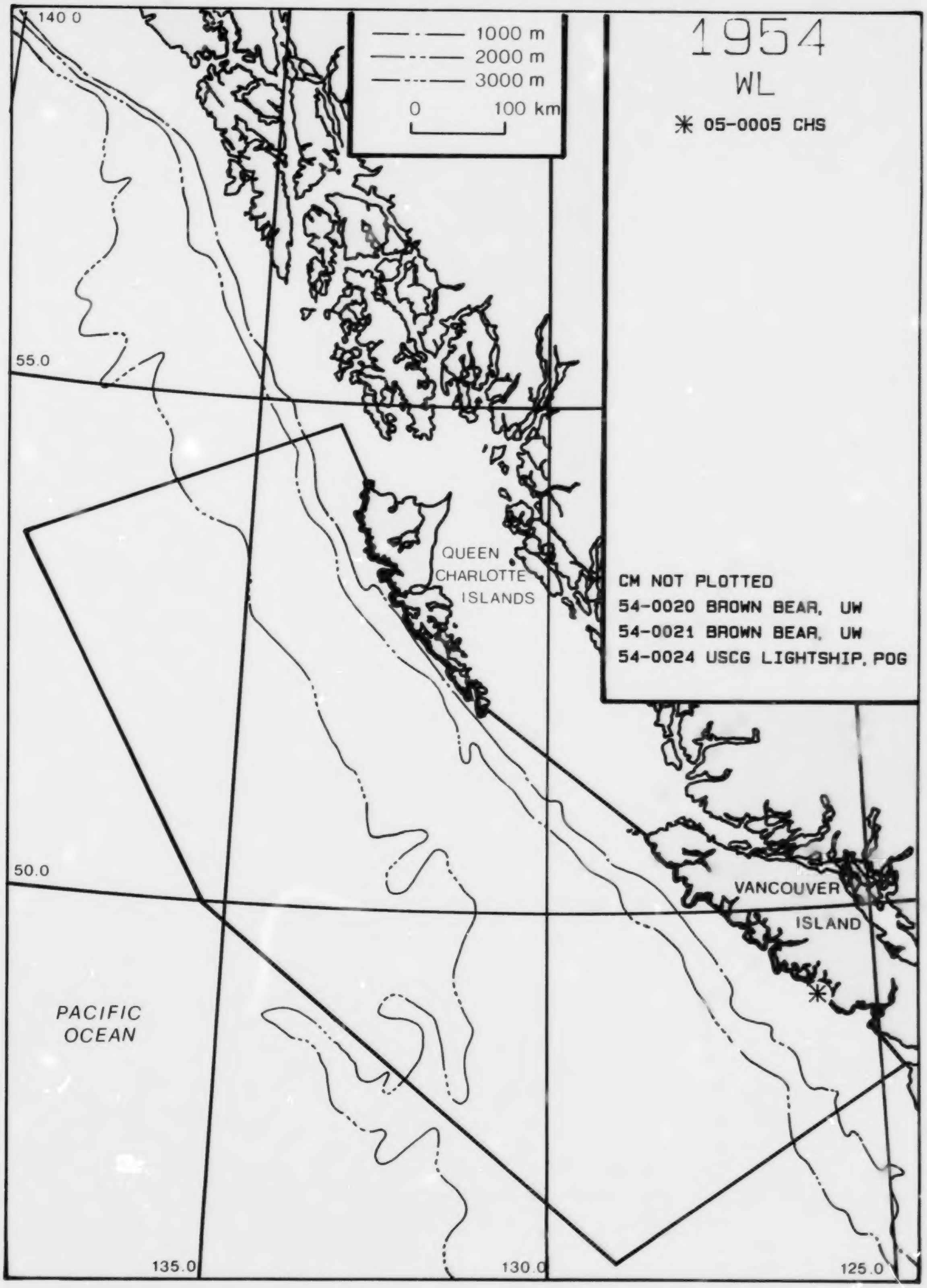

1952
TS
52-0014 SAULTE ST MARIE
52-0015A BROWN BEAR, UW
52-0015B BROWN BEAR, UW
52-0015C BROWN BEAR, UW
52-0015D BROWN BEAR, UW
52-0017 ?, POG
52-0018 ?, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

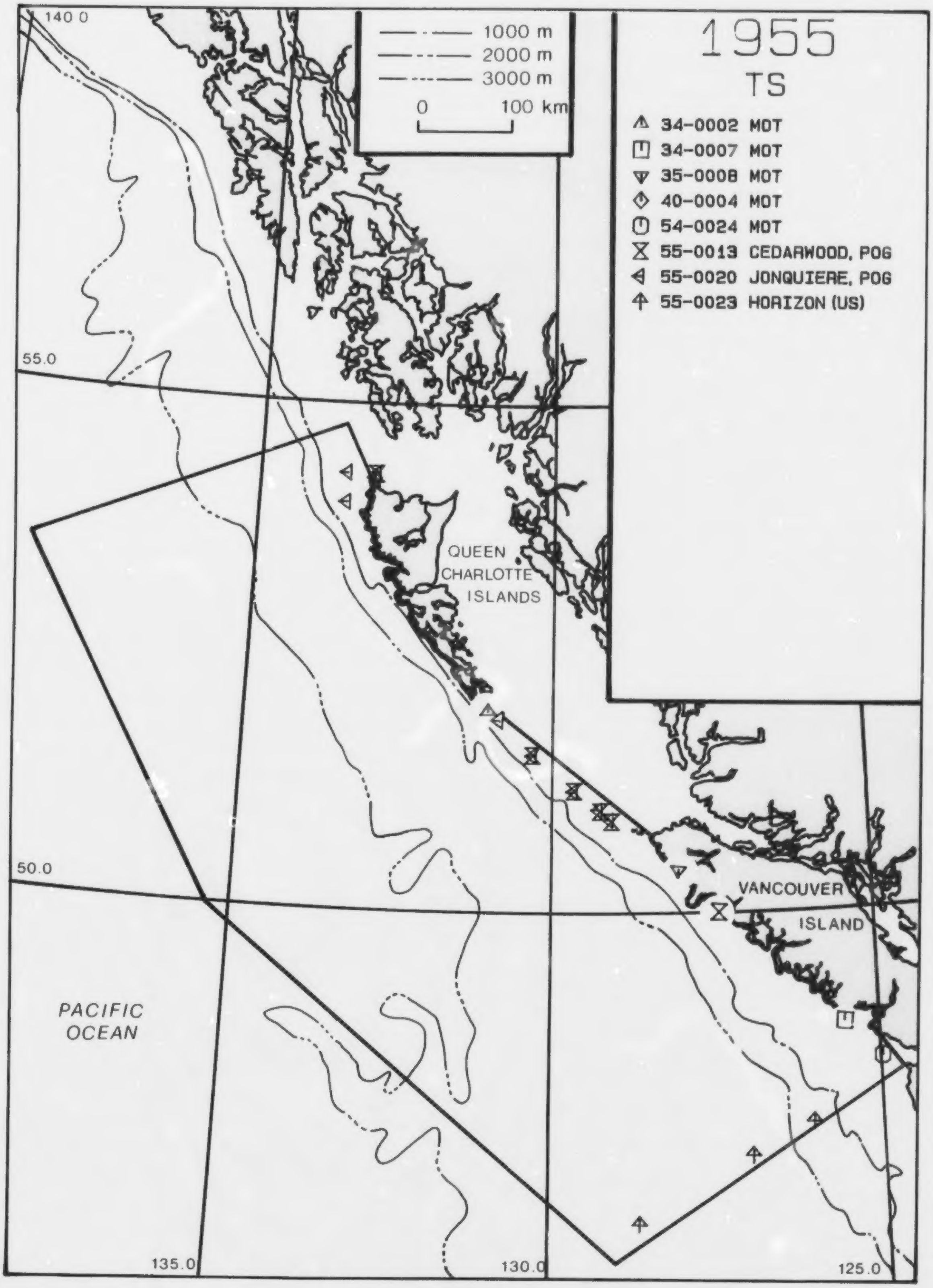

140.0
1000 m
2000 m
3000 m
0
100 km
1953
TS
34-0002 MOT
34-0006 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
53-0015B CANCOLIM 2, UBC
53-0019A BROWN BEAR, UW
53-0019B BROWN BEAR, UW
53-0020A BROWN BEAR, UW
53-0020B BROWN BEAR, UW
WL
05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

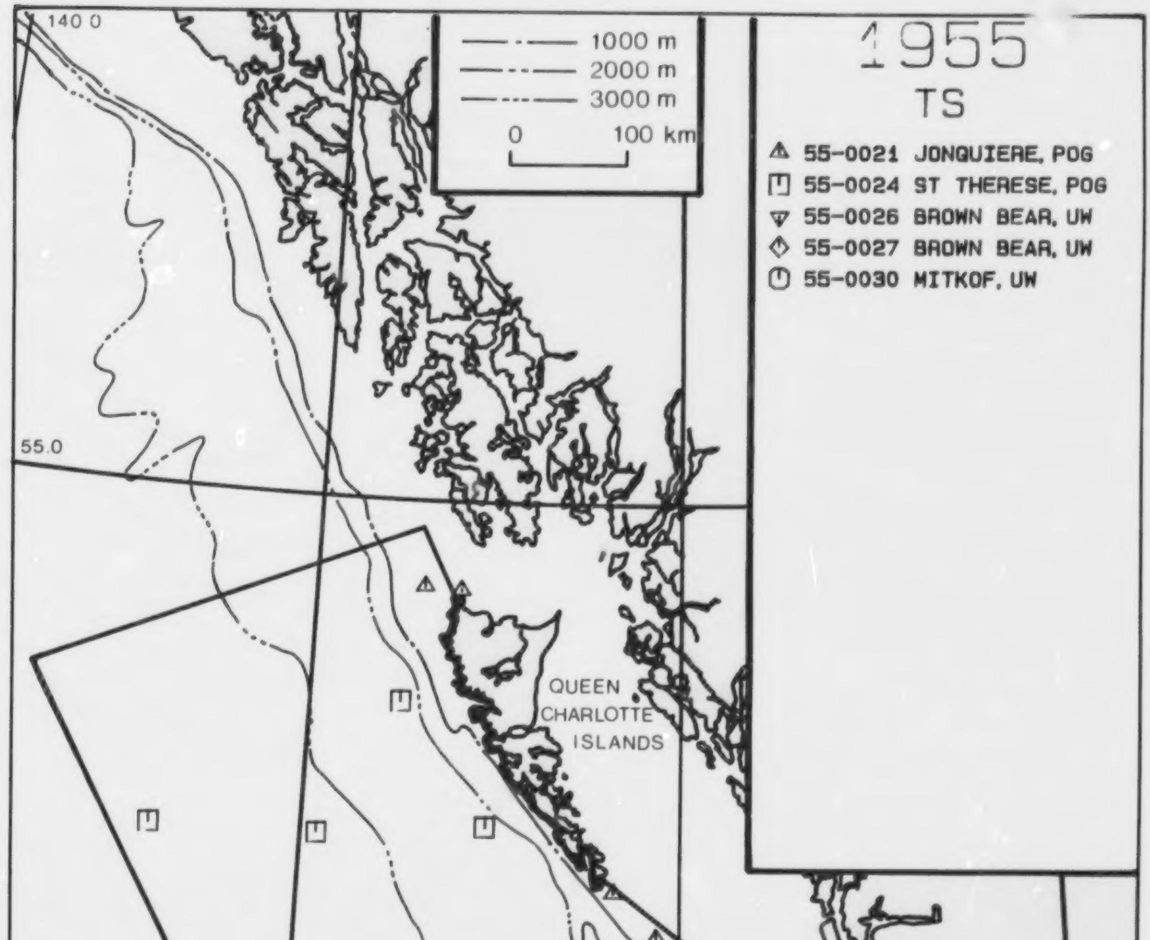

1953
TS
△ 34-0006 MOT
☐ 34-0007 MOT
▽ 35-0008 MOT
◇ 53-0019A BROWN BEAR, UW
53-0019B BROWN BEAR, UW
⧗ 53-0020A BROWN BEAR, UW
◁ 53-0020B BROWN BEAR, UW
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

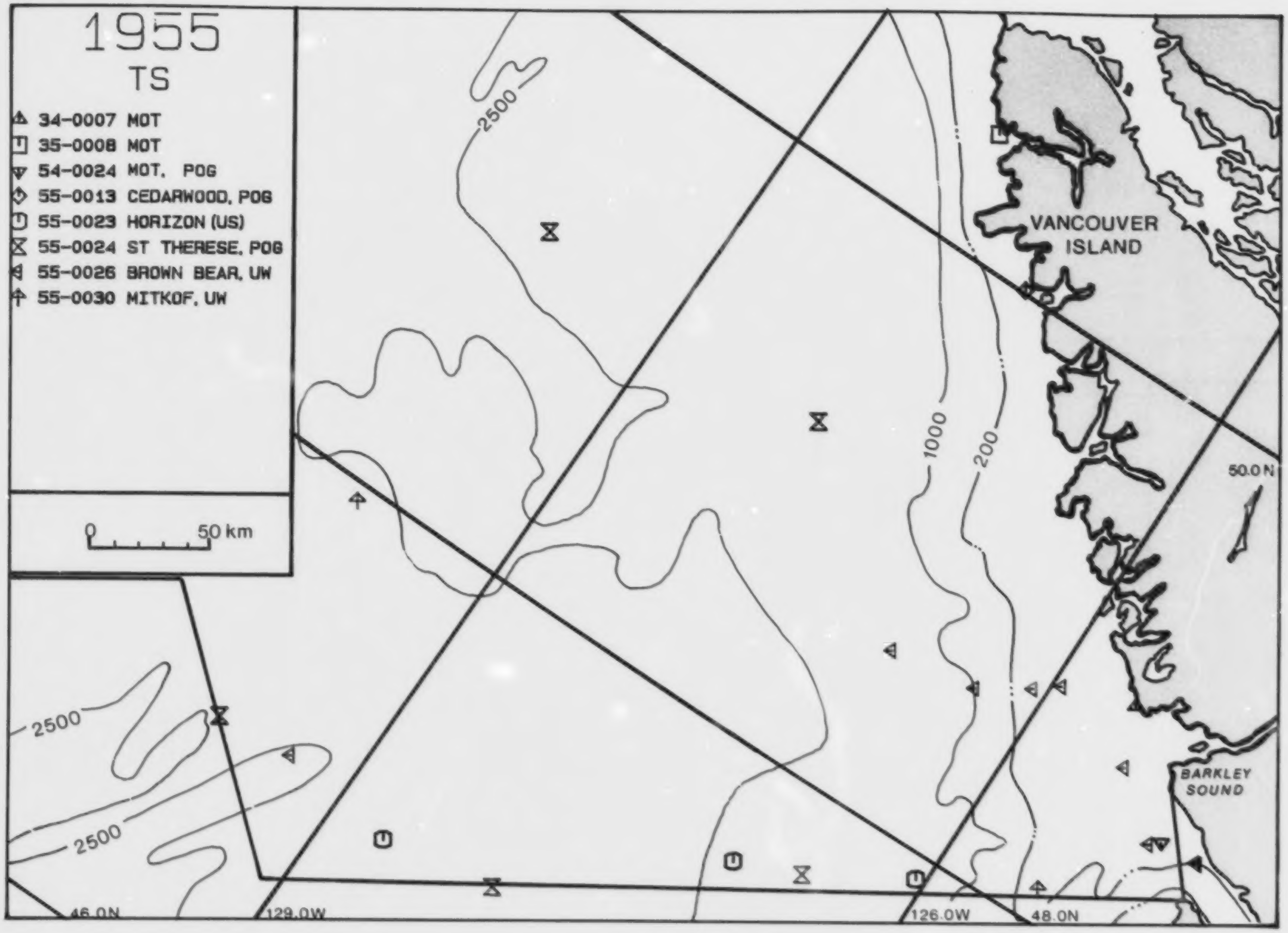

1954
TS
▲ 34-0002 MOT
34-0007 MOT
▼ 35-0008 MOT
◆ 40-0004 MOT
54-0012A CEDARWOOD, POG
54-0012B EHKOLI, POG
54-0012C CEDARWOOD, POG
54-0012D CEDARWOOD, POG
54-0019 EHKOLI, POG
54-0020 BROWN BEAR, UW
54-0020? BROWN BEAR, UW
54-0021 BROWN BEAR, UW
54-0022 BROWN BEAR, UW
54-0023 BROWN BEAR, UW
Y 54-0024 POG
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

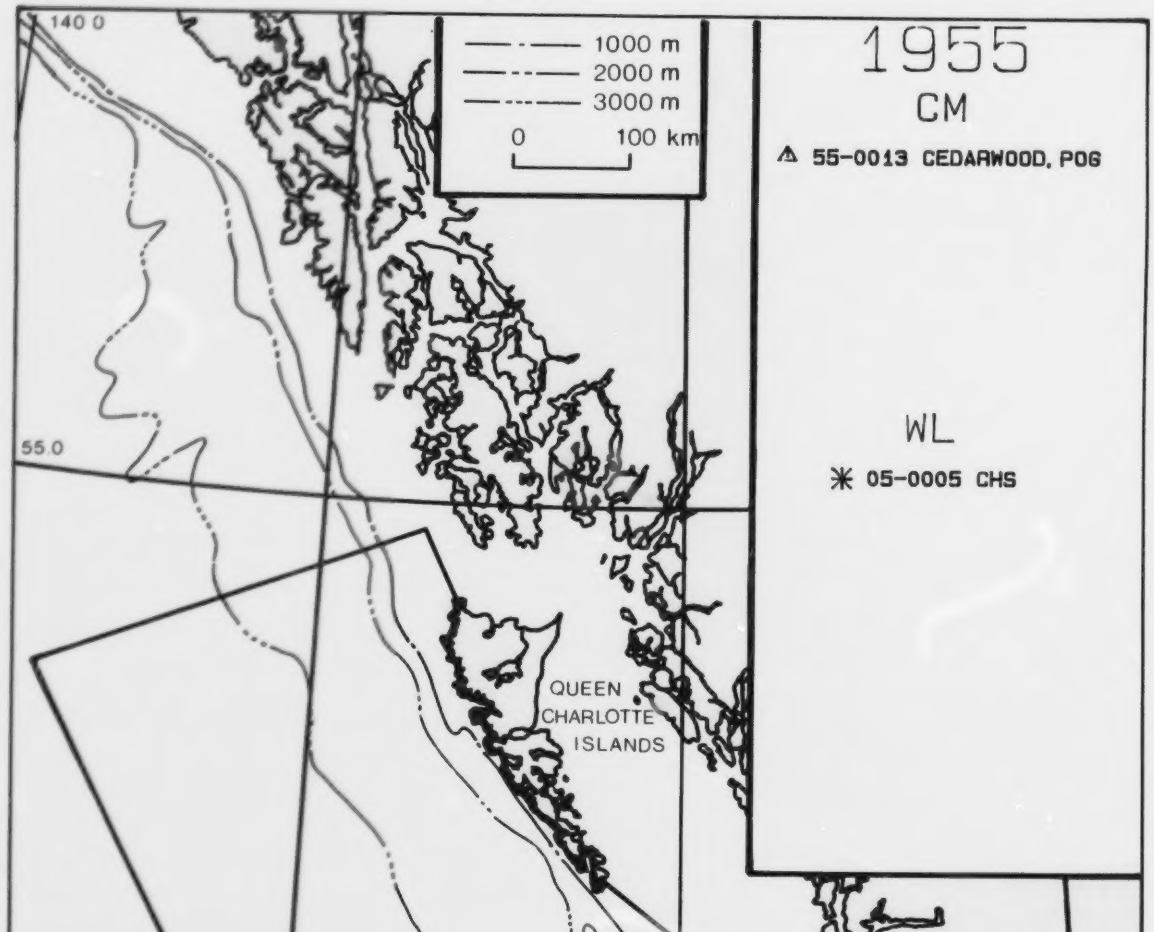

1954
TS
⚠ 54-0019 EHKOLI, POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

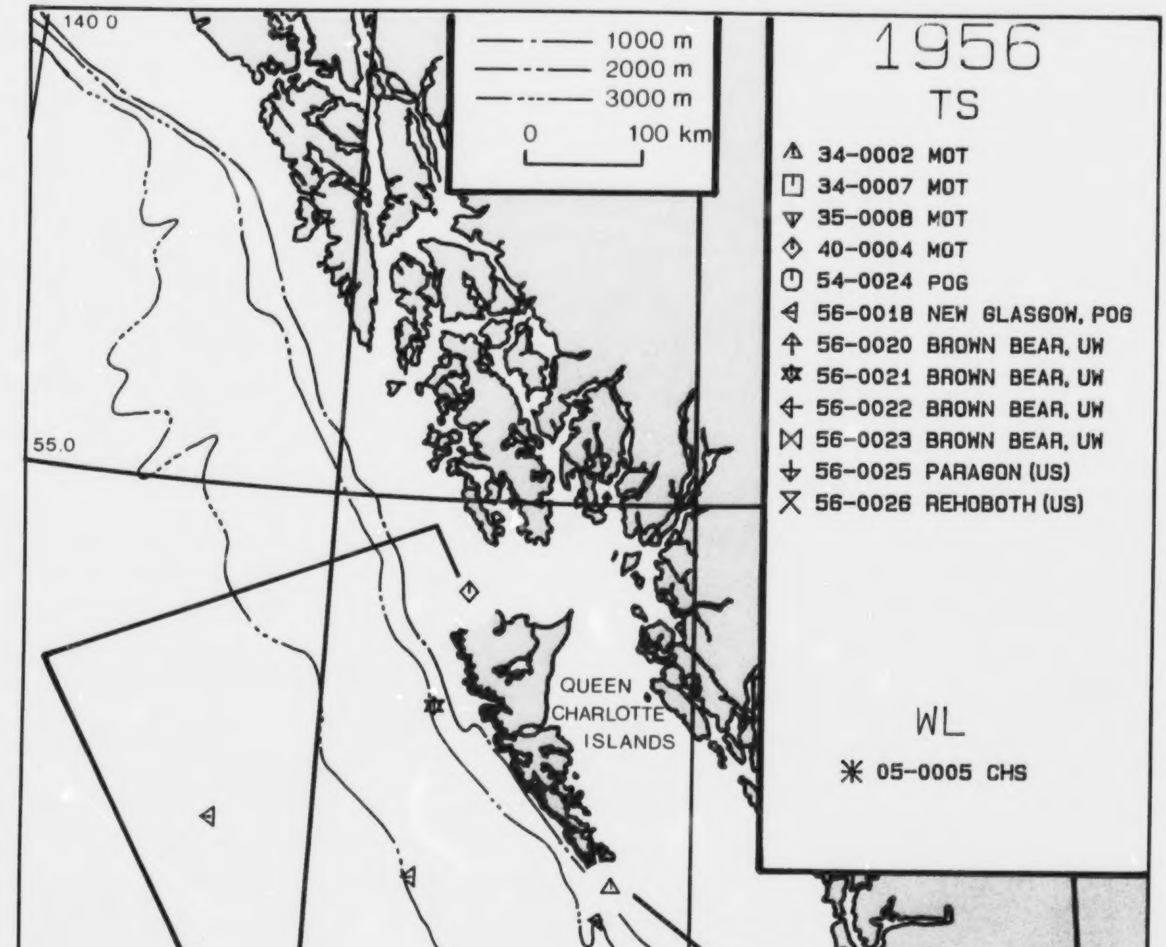

140.0
1000 m
2000 m
3000 m
0
100 km
1954
WL
✳ 05-0005 CHS
55.0
QUEEN CHARLOTTE ISLANDS
CM NOT PLOTTED
54-0020 BROWN BEAR, UW
54-0021 BROWN BEAR, UW
54-0024 USCG LIGHTSHIP, POG
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

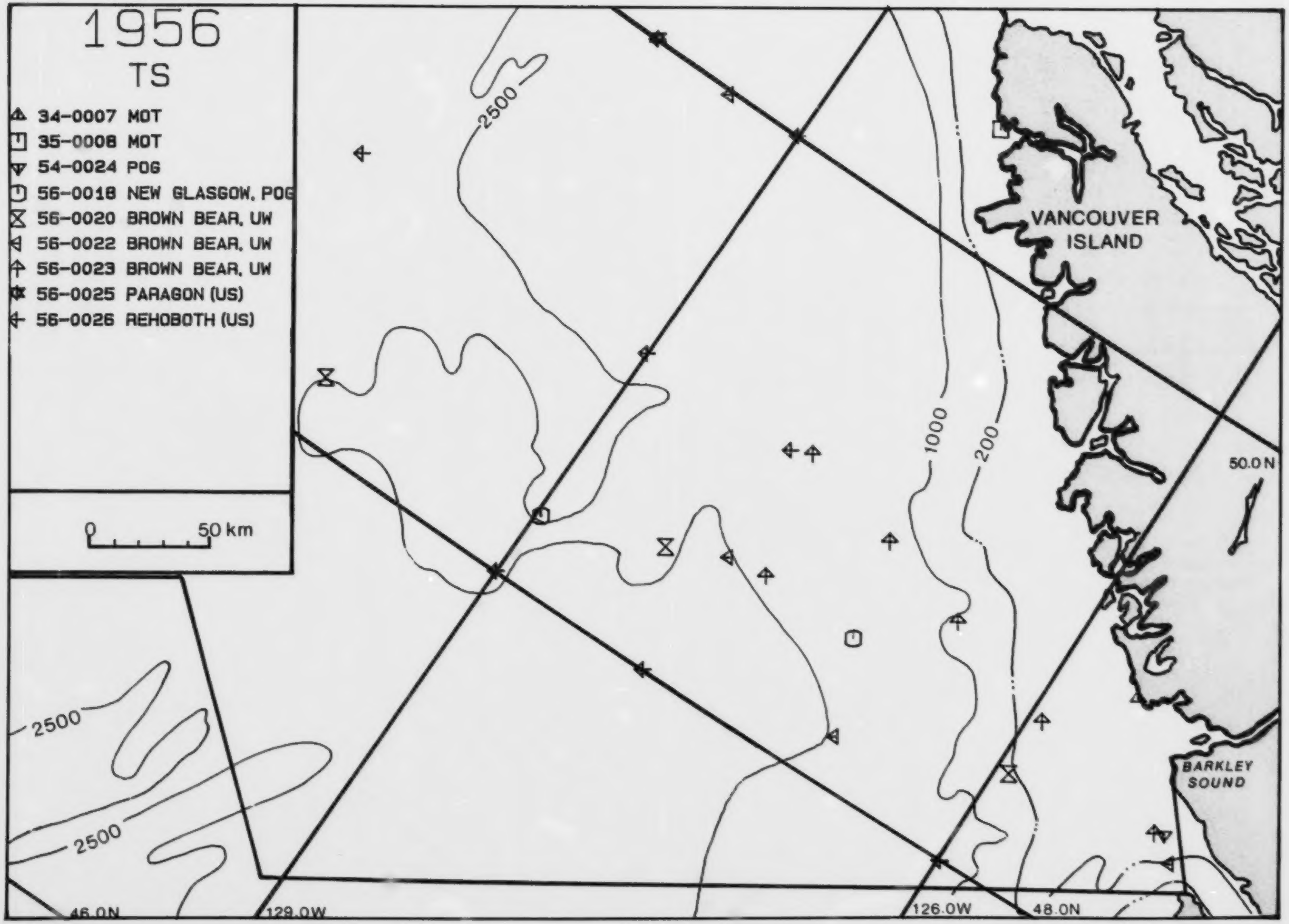

1955
TS
△ 34-0002 MOT
⊡ 34-0007 MOT
▽ 35-0008 MOT
◇ 40-0004 MOT
⊙ 54-0024 MOT
⧗ 55-0013 CEDARWOOD, POG
◁ 55-0020 JONQUIERE, POG
↑ 55-0023 HORIZON (US)
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

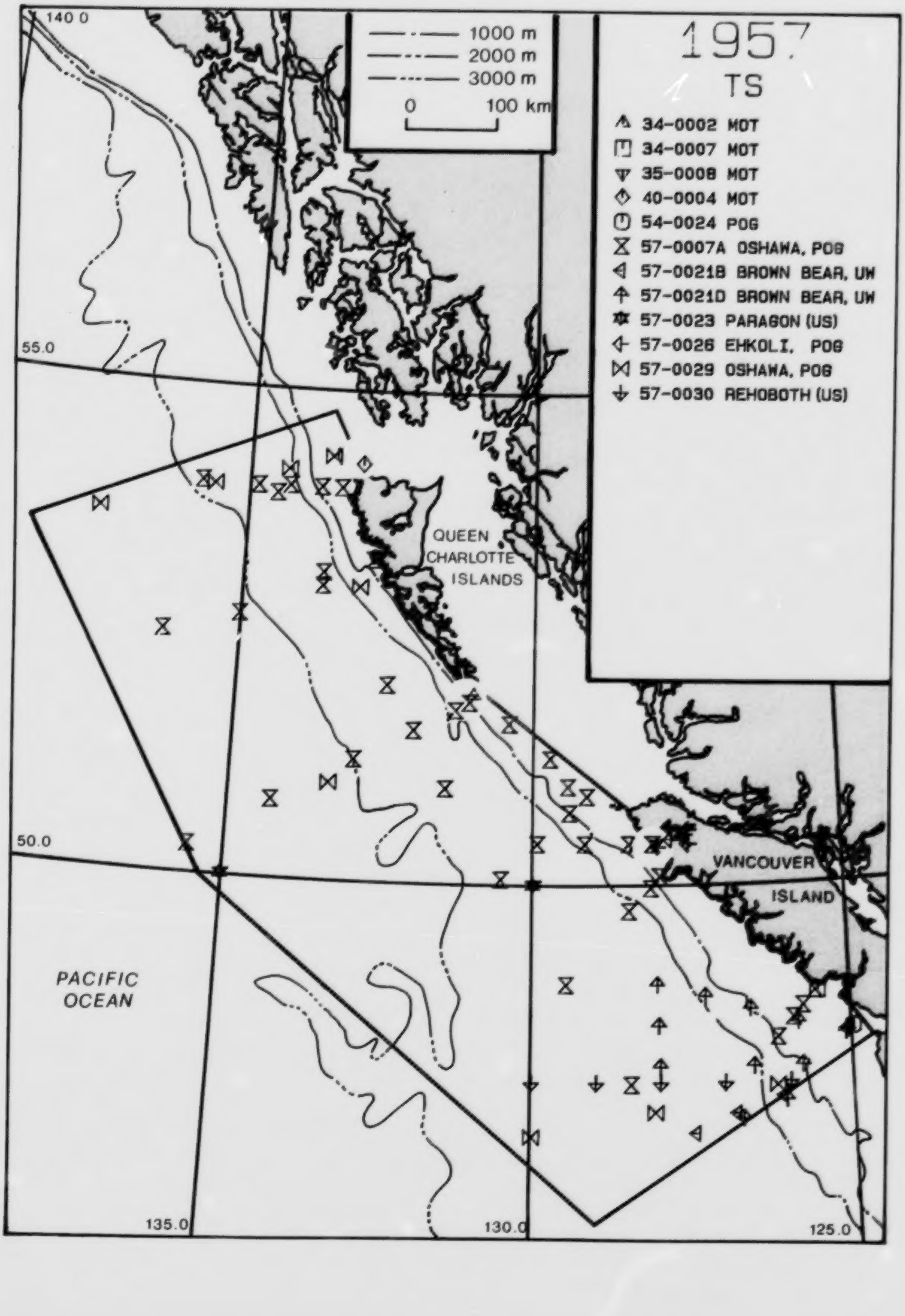

1000 m
2000 m
3000 m
0
100 km
1955
TS
△ 55-0021 JONQUIERE, POG
⊓ 55-0024 ST THERESE, POG
▽ 55-0026 BROWN BEAR, UW
◇ 55-0027 BROWN BEAR, UW
○ 55-0030 MITKOF, UW
140 0
55.0
50.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

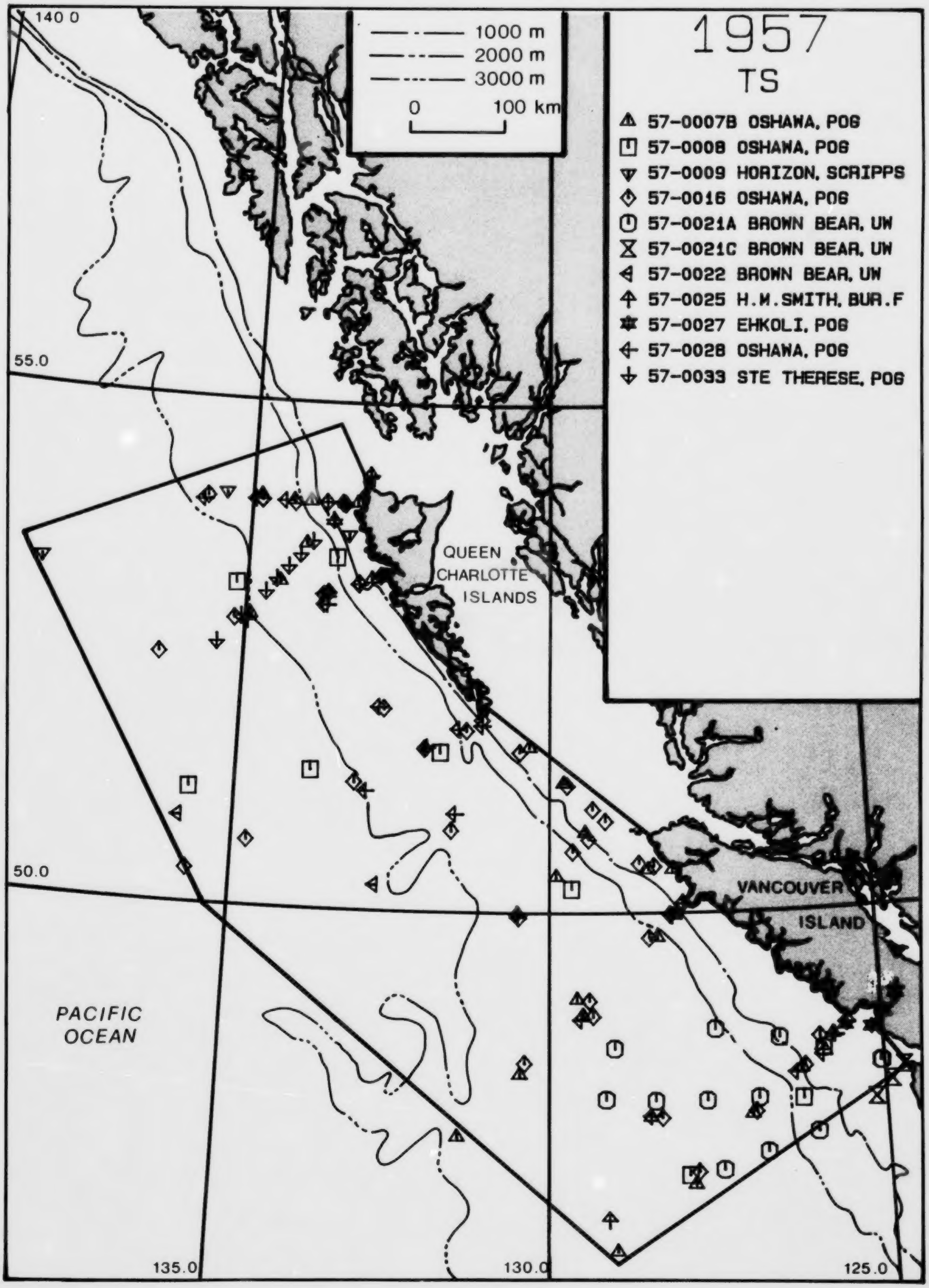

1955
TS
34-0007 MOT
35-0008 MOT
54-0024 MOT, POG
55-0013 CEDARWOOD, POG
55-0023 HORIZON (US)
55-0024 ST THERESE, POG
55-0026 BROWN BEAR, UW
55-0030 MITKOF, UW
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
1000
200
2500
2500
50.0 N
48.0N
46.0N
129.0W
126.0W

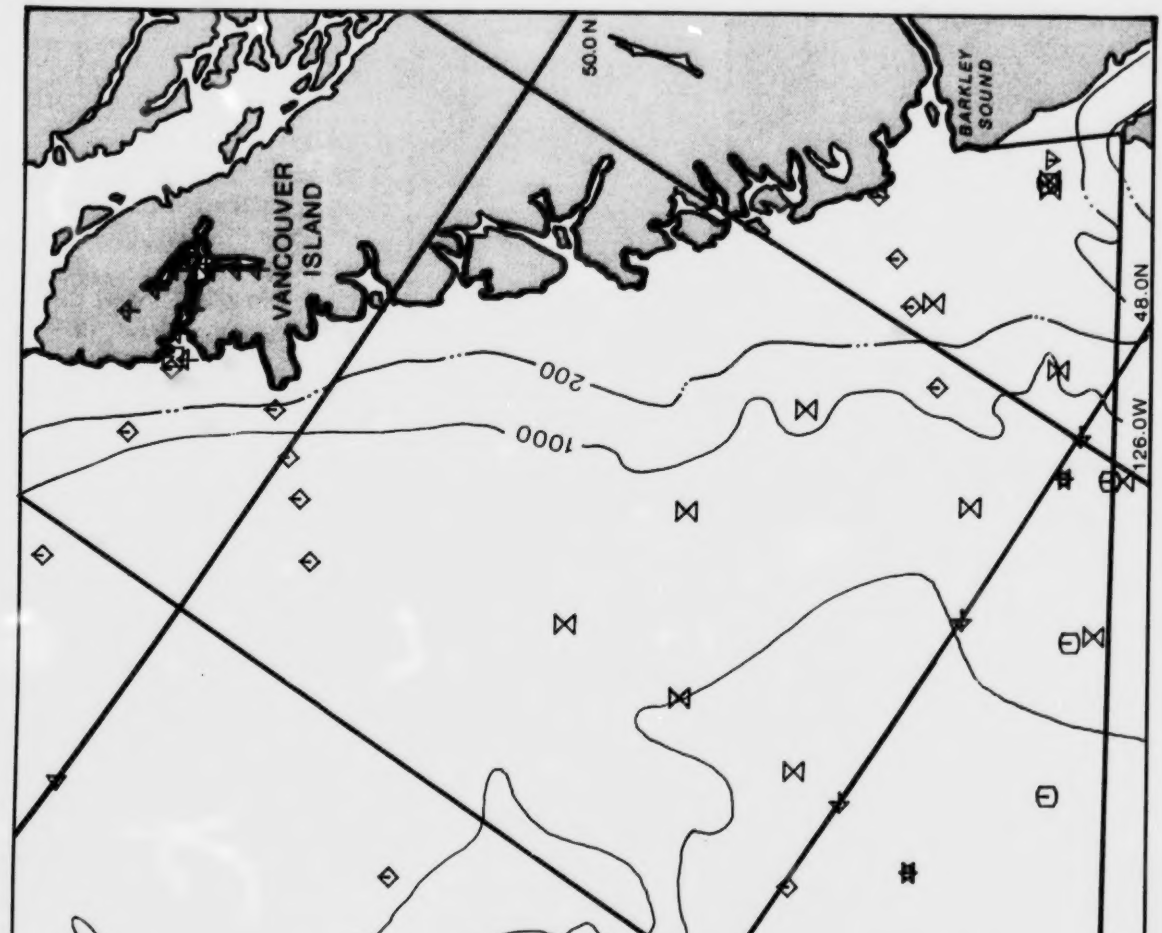

140.0
1000 m
2000 m
3000 m
0
100 km
1955
CM
55-0013 CEDARWOOD, POG
WL
05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

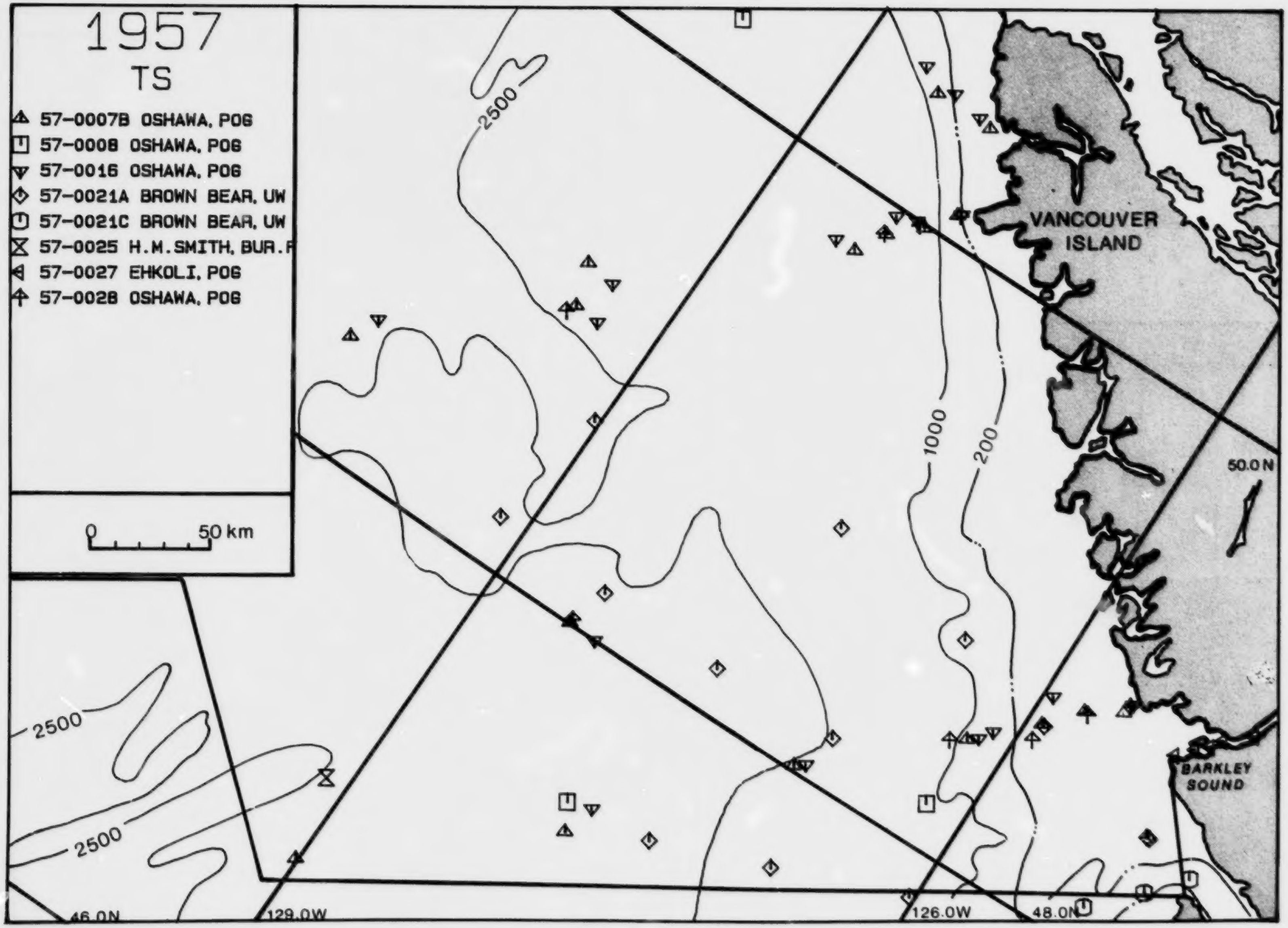

1000 m
2000 m
3000 m
0 100 km
1956
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
54-0024 POG
56-0018 NEW GLASGOW, POG
56-0020 BROWN BEAR, UW
56-0021 BROWN BEAR, UW
56-0022 BROWN BEAR, UW
56-0023 BROWN BEAR, UW
56-0025 PARAGON (US)
56-0026 REHOBOTH (US)
WL
05-0005 CHS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

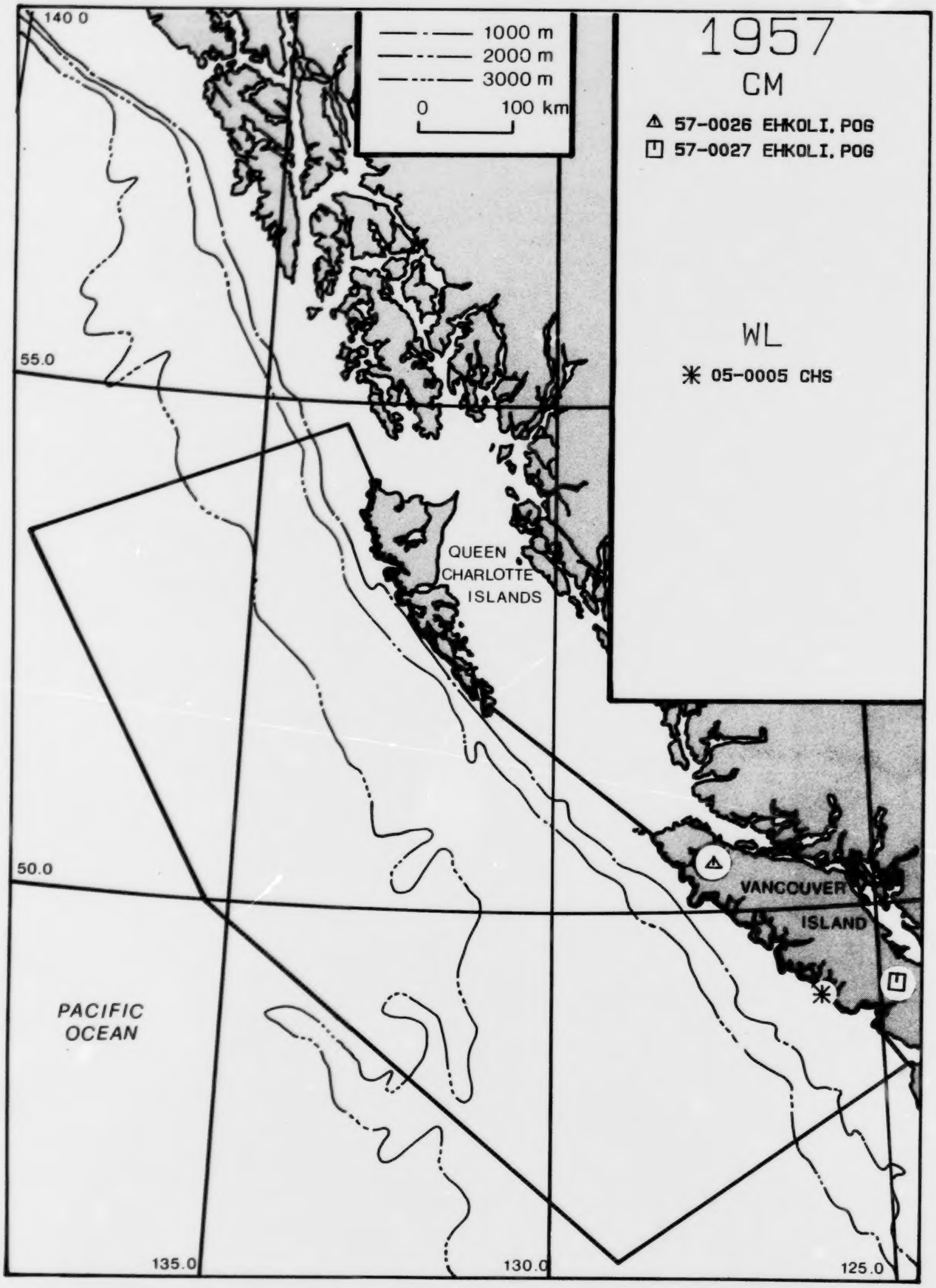

1956
TS
34-0007 MOT
35-0008 MOT
54-0024 POG
56-0018 NEW GLASGOW, POG
56-0020 BROWN BEAR, UW
56-0022 BROWN BEAR, UW
56-0023 BROWN BEAR, UW
56-0025 PARAGON (US)
56-0026 REHOBOTH (US)
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
1000
200
50.0N
48.0N
46.0N
126.0W
129.0W

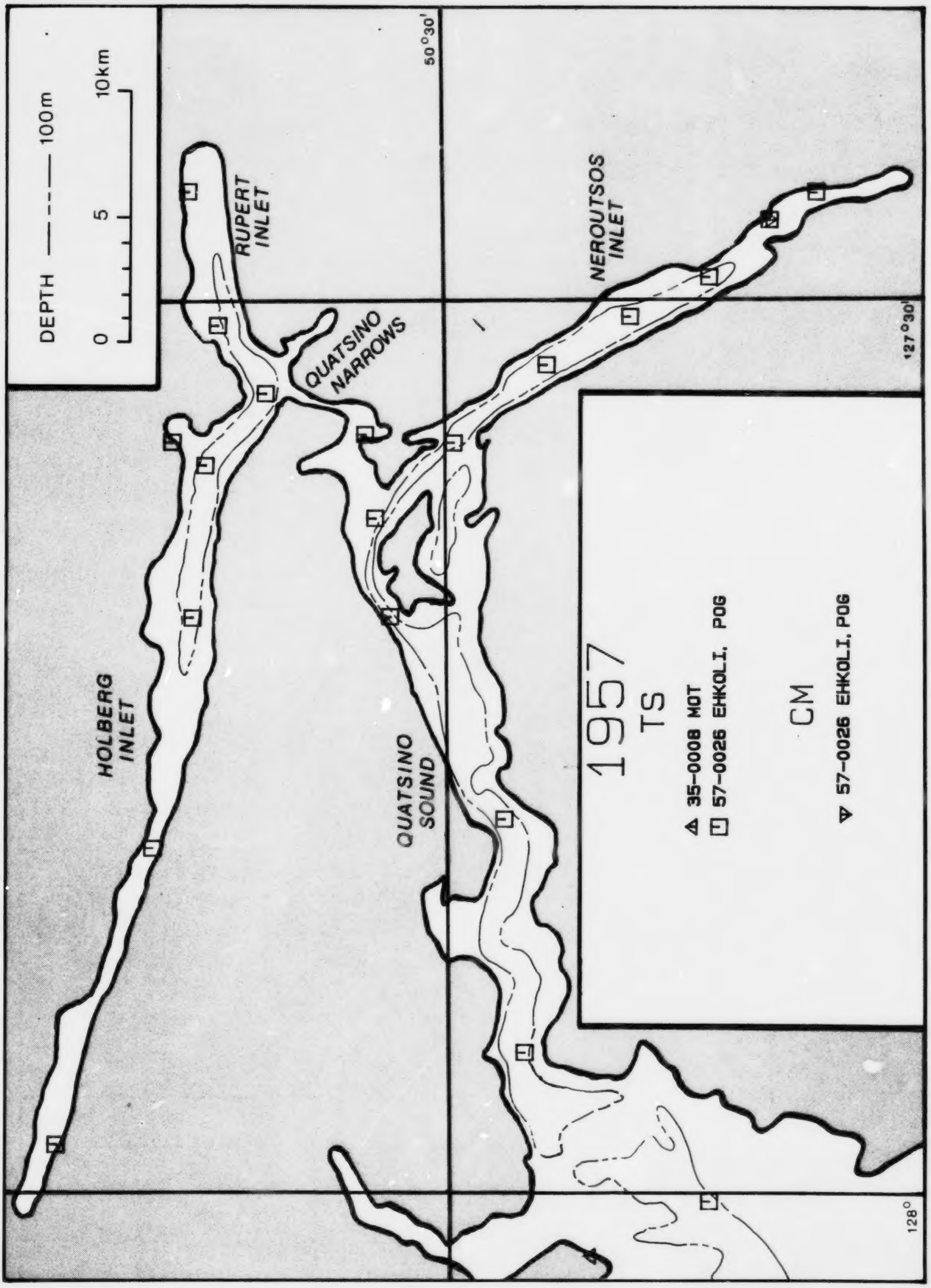

1957
TS
1000 m
2000 m
3000 m
0
100 km
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
54-0024 POG
57-0007A OSHAWA, POG
57-0021B BROWN BEAR, UW
57-0021D BROWN BEAR, UW
57-0023 PARAGON (US)
57-0026 EHKOLI, POG
57-0029 OSHAWA, POG
57-0030 REHOBOTH (US)
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

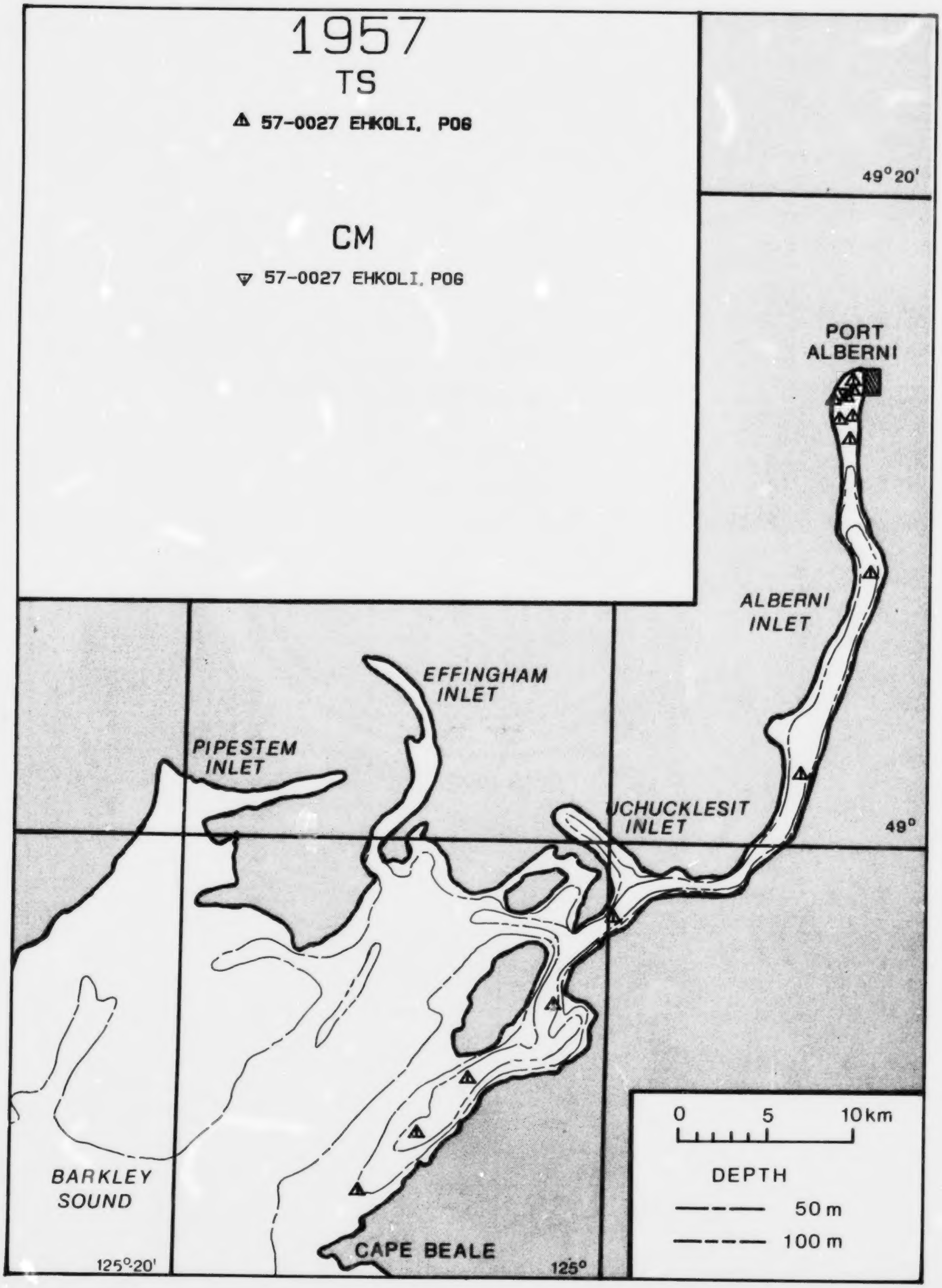

140 0
1000 m
2000 m
3000 m
0
100 km
1957
TS
57-0007B OSHAWA, POG
57-0008 OSHAWA, POG
57-0009 HORIZON, SCRIPPS
57-0016 OSHAWA, POG
57-0021A BROWN BEAR, UW
57-0021C BROWN BEAR, UW
57-0022 BROWN BEAR, UW
57-0025 H.M.SMITH, BUR.F
57-0027 EHKOLI, POG
57-0028 OSHAWA, POG
57-0033 STE THERESE, POG
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

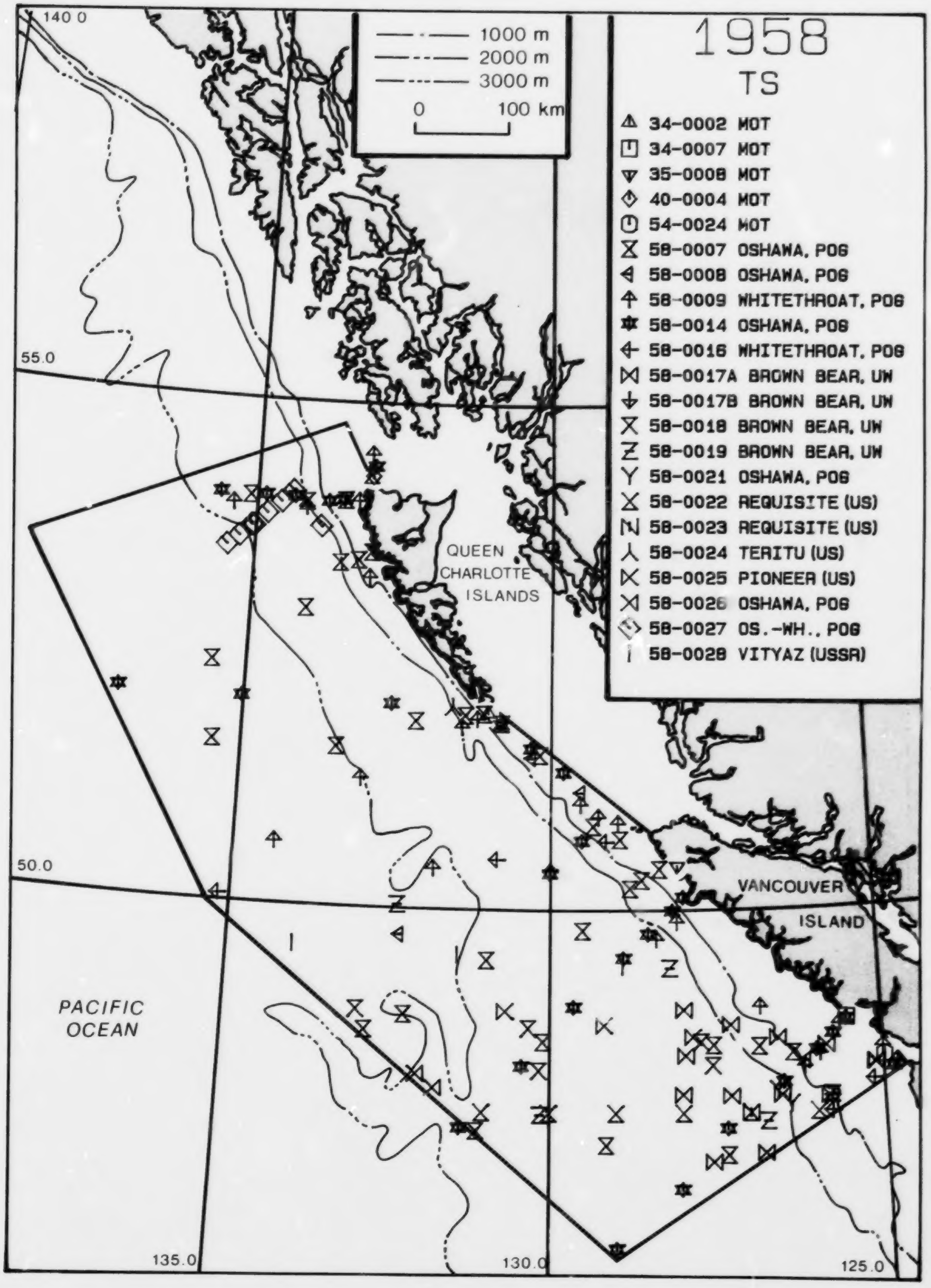

1957
TS
34-0007 MOT
35-0008 MOT
54-0024 POG
57-0007A OSHAWA, POG
57-0021B BROWN BEAR, UW
57-0021D BROWN BEAR, UW
57-0023 PARAGON (US)
57-0026 EHKOLI, POG
57-0029 OSHAWA, POG
57-0030 REHOBOTH (US)
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

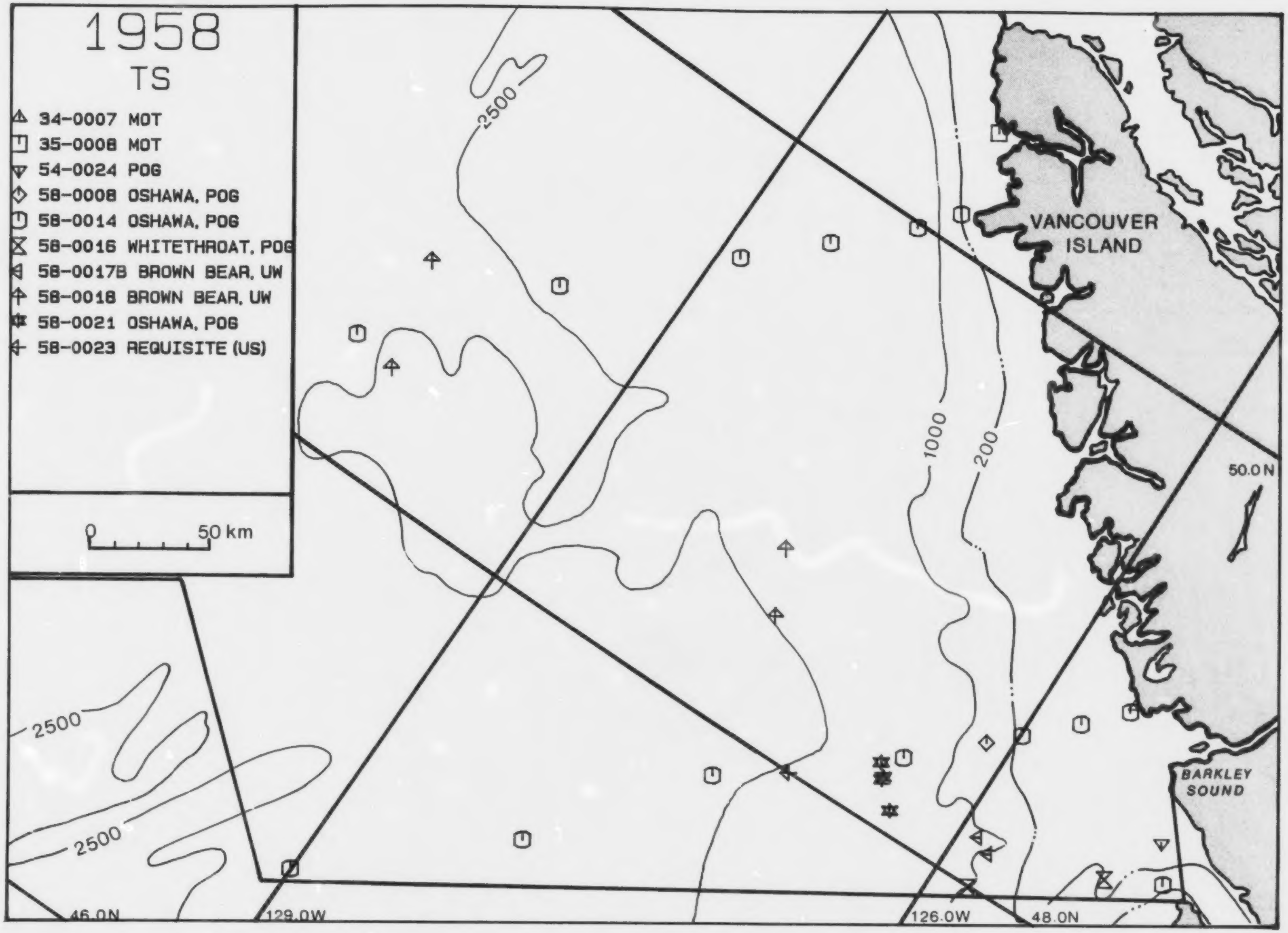

1957
TS
△ 57-0007B OSHAWA, POG
□ 57-0008 OSHAWA, POG
▽ 57-0016 OSHAWA, POG
◇ 57-0021A BROWN BEAR, UW
○ 57-0021C BROWN BEAR, UW
⌛ 57-0025 H.M.SMITH, BUR.F
◁ 57-0027 EHKOLI, POG
✝ 57-0028 OSHAWA, POG
0 50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
129.0W
126.0W
200
1000
2500
2500
2500

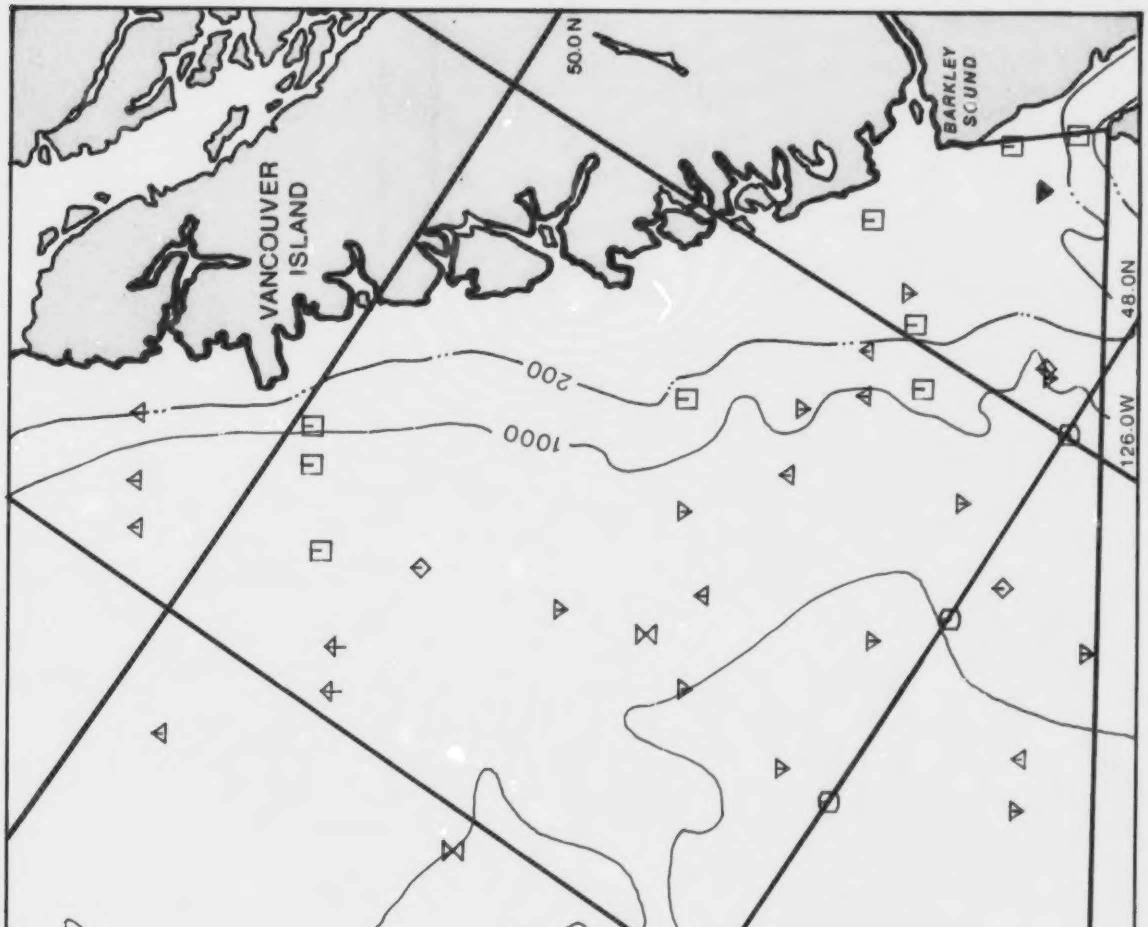

140 0
1000 m
2000 m
3000 m
0
100 km
1957
CM
△ 57-0026 EHKOLI.POG
☐ 57-0027 EHKOLI.POG
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

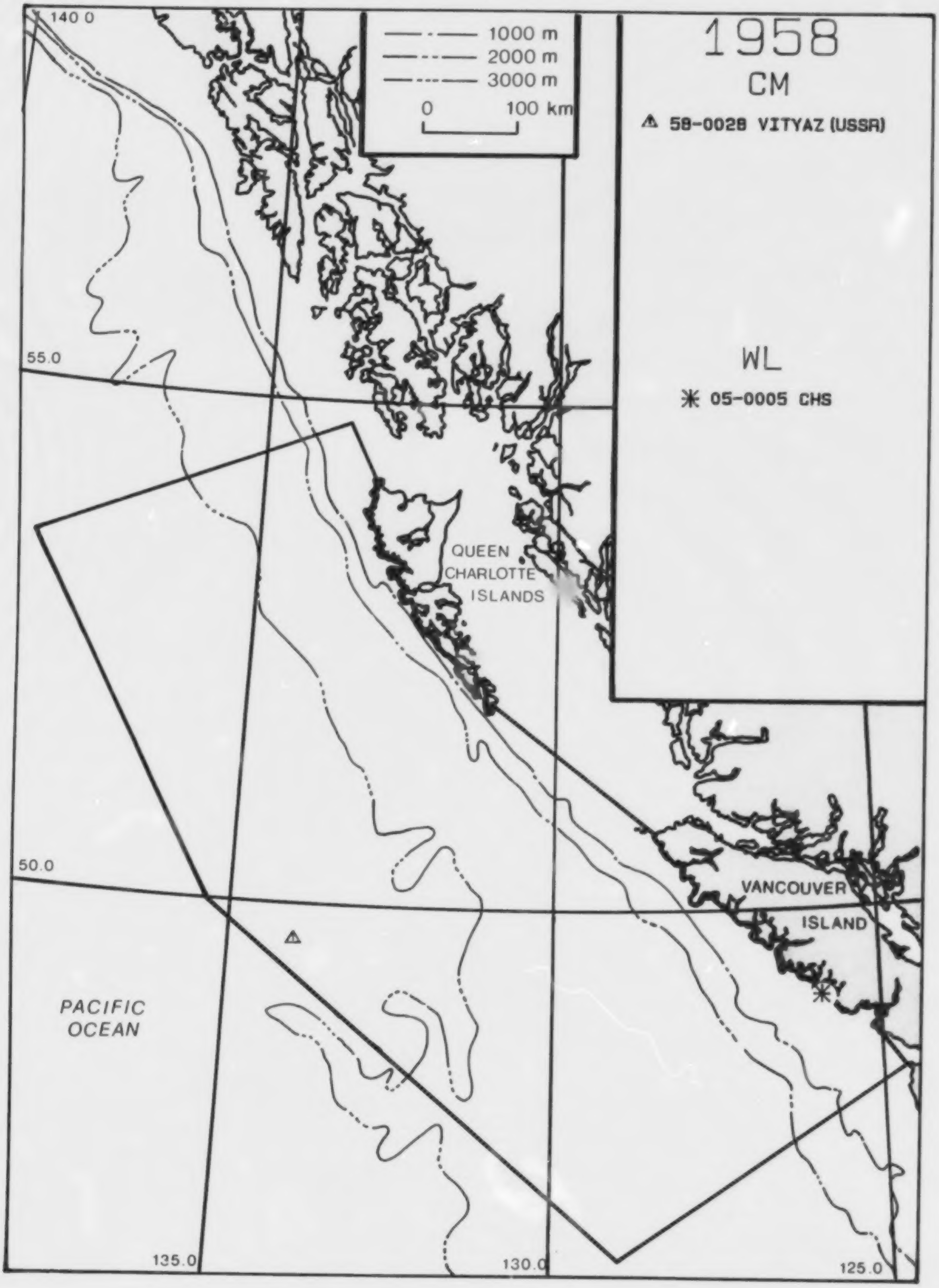

DEPTH —— - - - —— 100m
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
128°
127°30'
1957
TS
△ 35-0008 MOT
◻ 57-0026 EHKOLI, POG
CM
▽ 57-0026 EHKOLI, POG

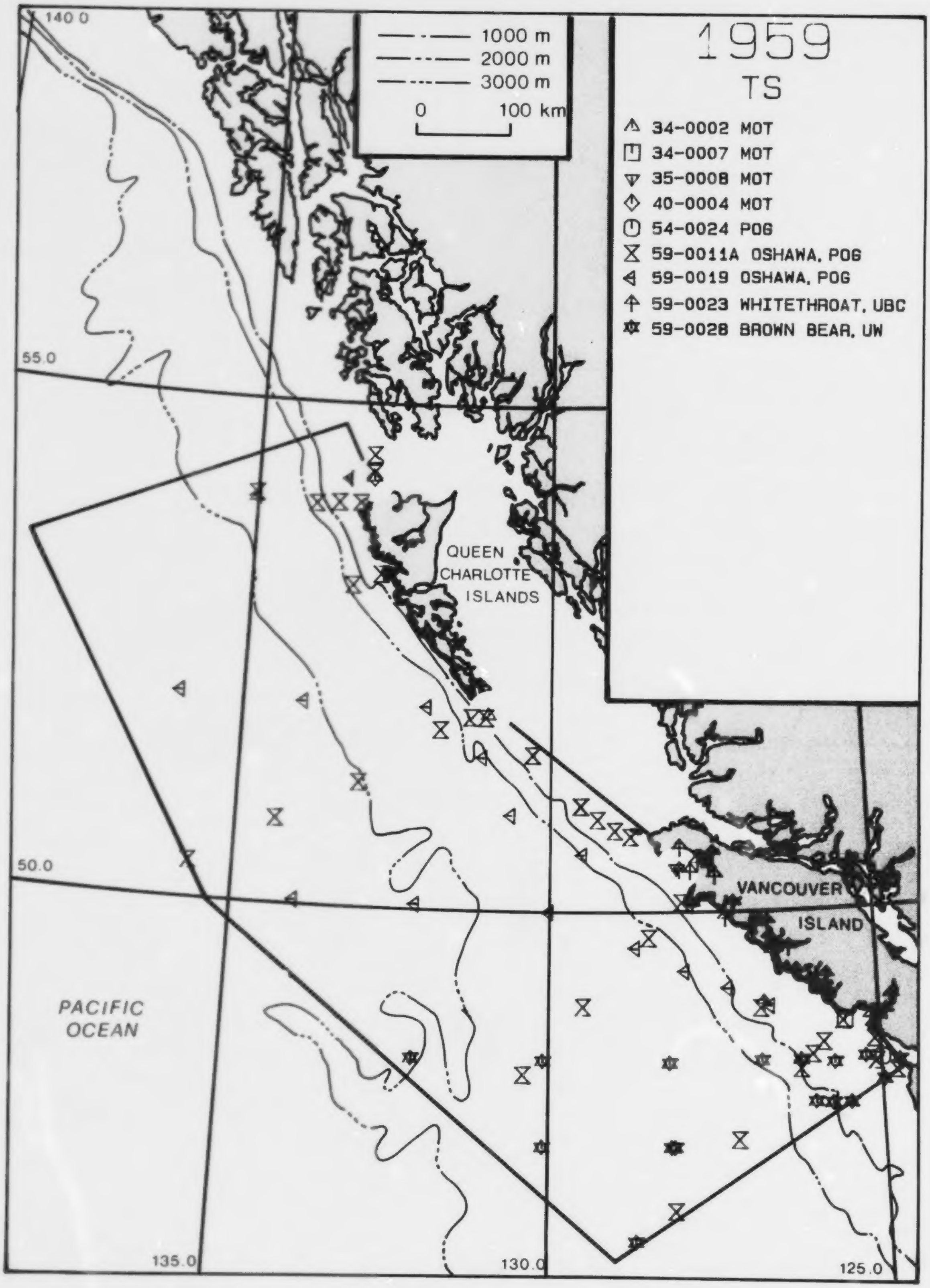

1957
TS
△ 57-0027 EHKOLI. P06
CM
▽ 57-0027 EHKOLI. P06
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125° 20'
125°
0
5
10 km
DEPTH
50 m
100 m

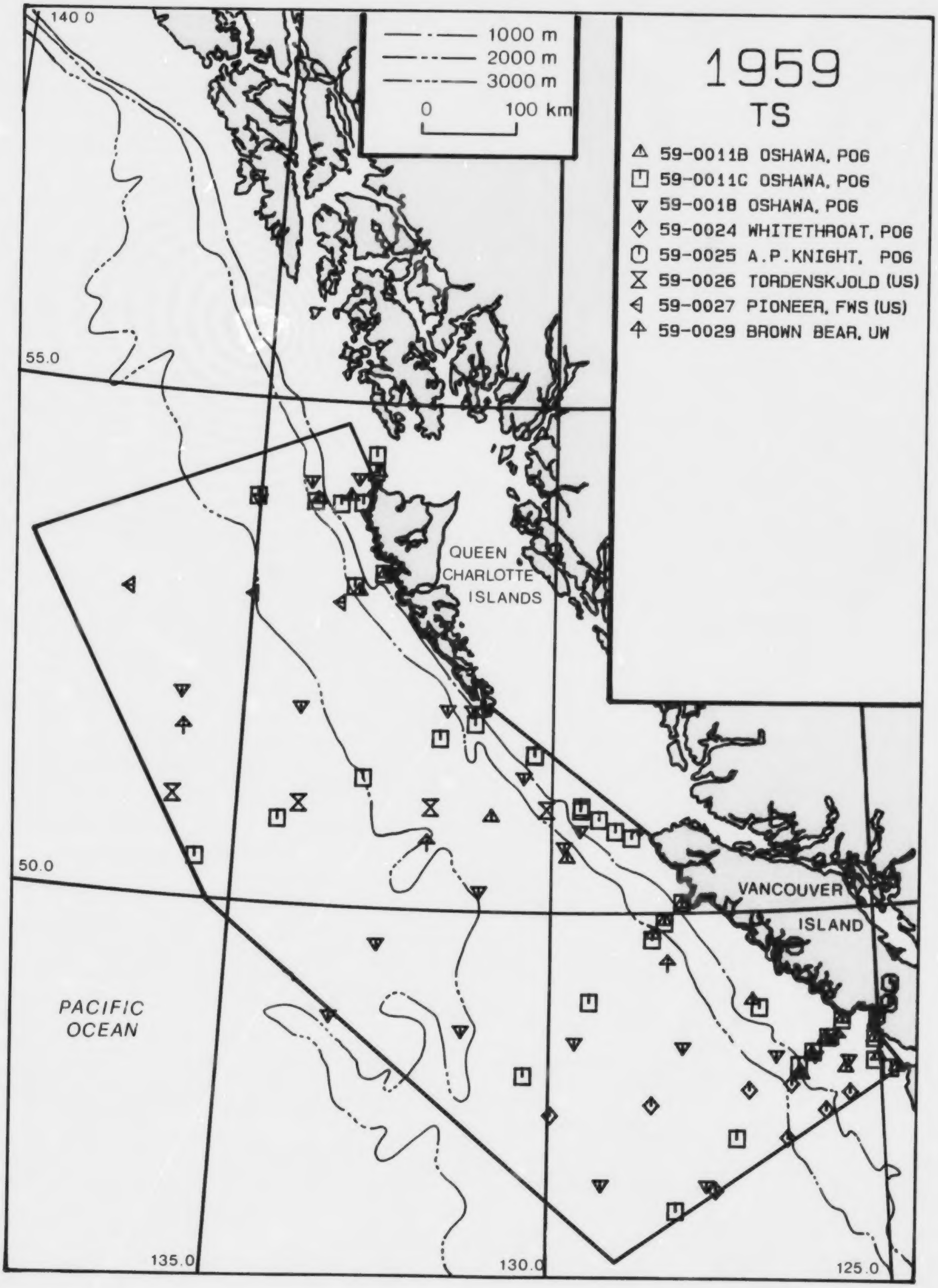

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN
1958
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
54-0024 MOT
58-0007 OSHAWA, POG
58-0008 OSHAWA, POG
58-0009 WHITETHROAT, POG
58-0014 OSHAWA, POG
58-0016 WHITETHROAT, POG
58-0017A BROWN BEAR, UW
58-0017B BROWN BEAR, UW
58-0018 BROWN BEAR, UW
58-0019 BROWN BEAR, UW
58-0021 OSHAWA, POG
58-0022 REQUISITE (US)
58-0023 REQUISITE (US)
58-0024 TERITU (US)
58-0025 PIONEER (US)
58-0026 OSHAWA, POG
58-0027 OS.-WH., POG
58-0028 VITYAZ (USSR)

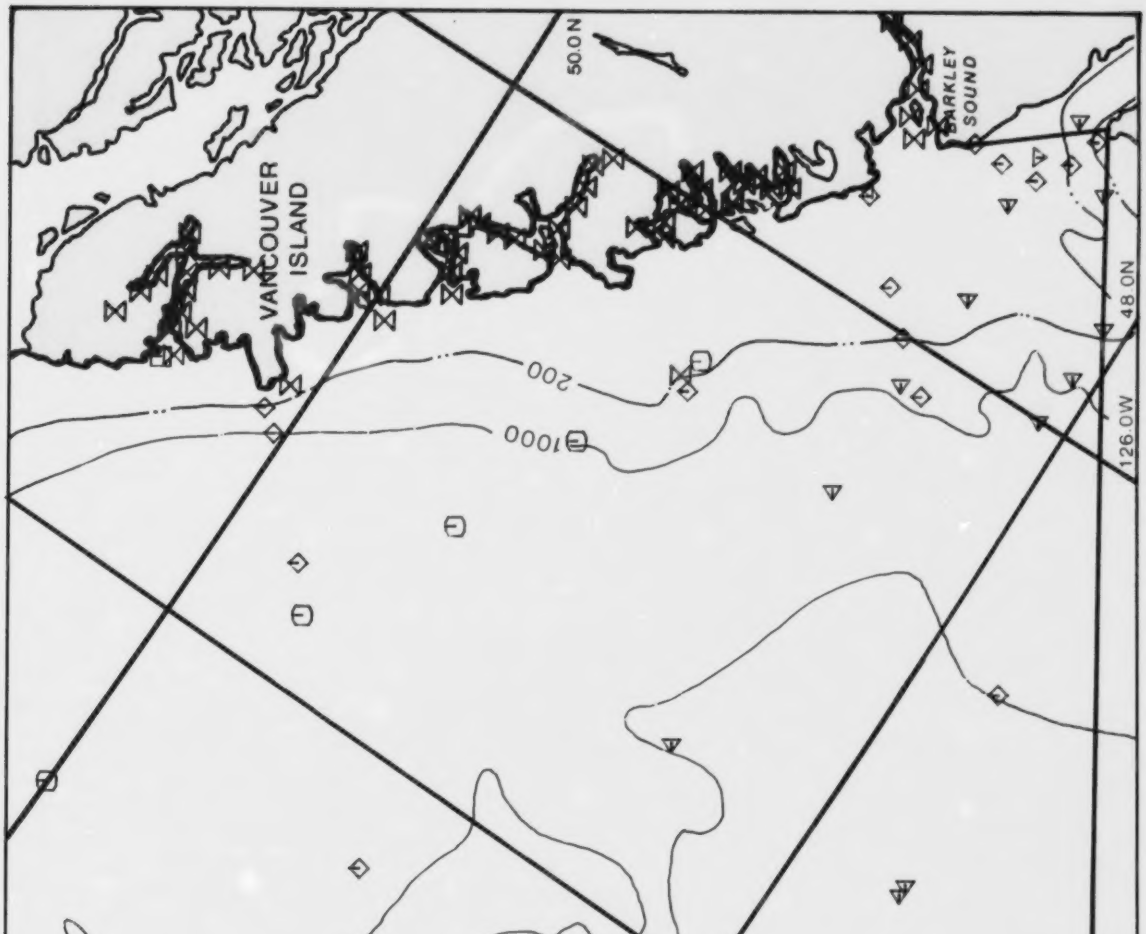

1958
TS
34-0007 MOT
35-0008 MOT
54-0024 POG
58-0008 OSHAWA, POG
58-0014 OSHAWA, POG
58-0016 WHITETHROAT, POG
58-0017B BROWN BEAR, UW
58-0018 BROWN BEAR, UW
58-0021 OSHAWA, POG
58-0023 REQUISITE (US)
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

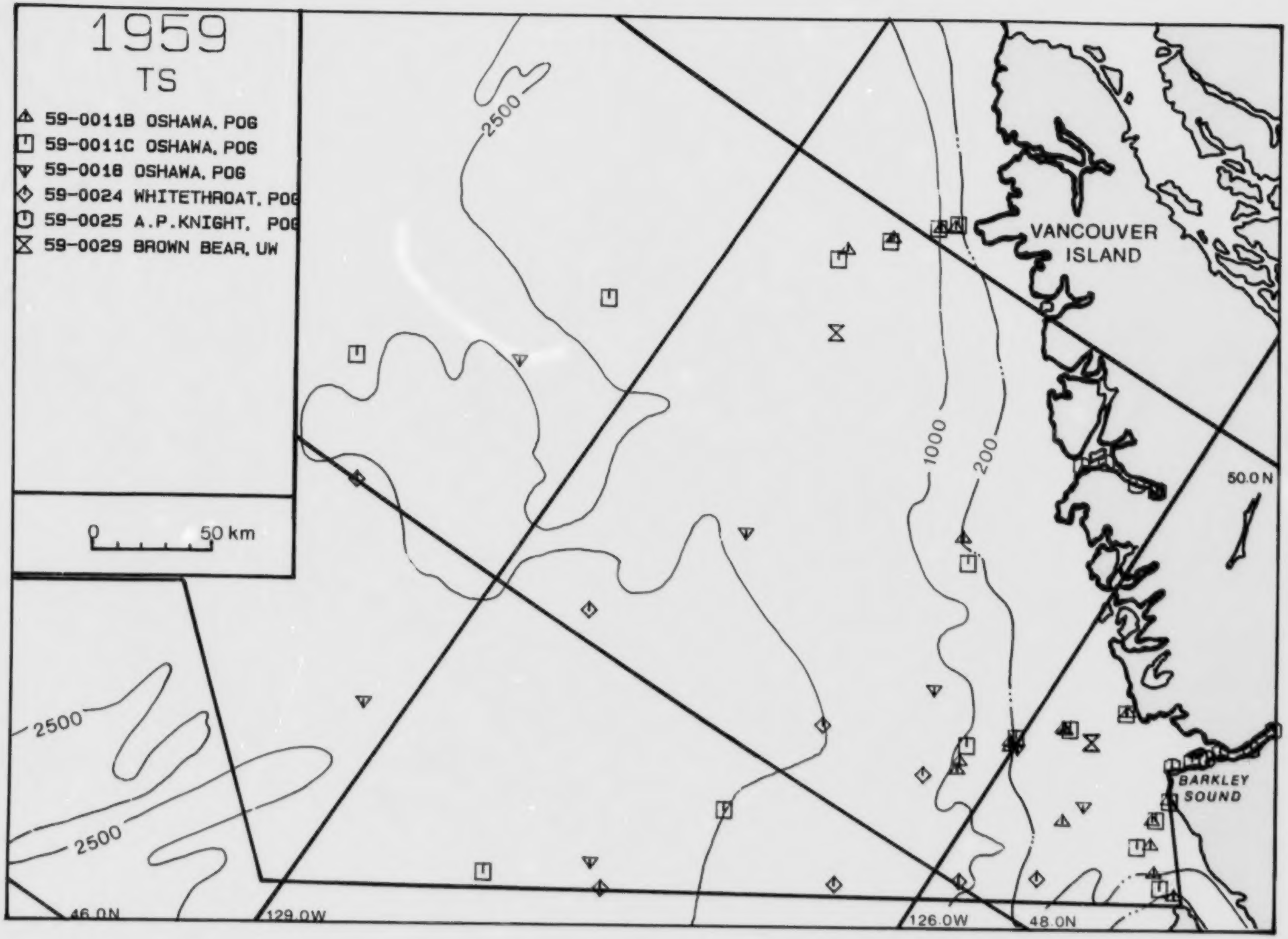

1958
TS
58-0007 OSHAWA, POG
58-0009 WHITETHROAT, POG
58-0017A BROWN BEAR, UW
58-0019 BROWN BEAR, UW
58-0022 REQUISITE (US)
58-0025 PIONEER (US)
58-0028 VITYAZ (USSR)
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
128.0W
200
1000
2500
2500
2500
2500

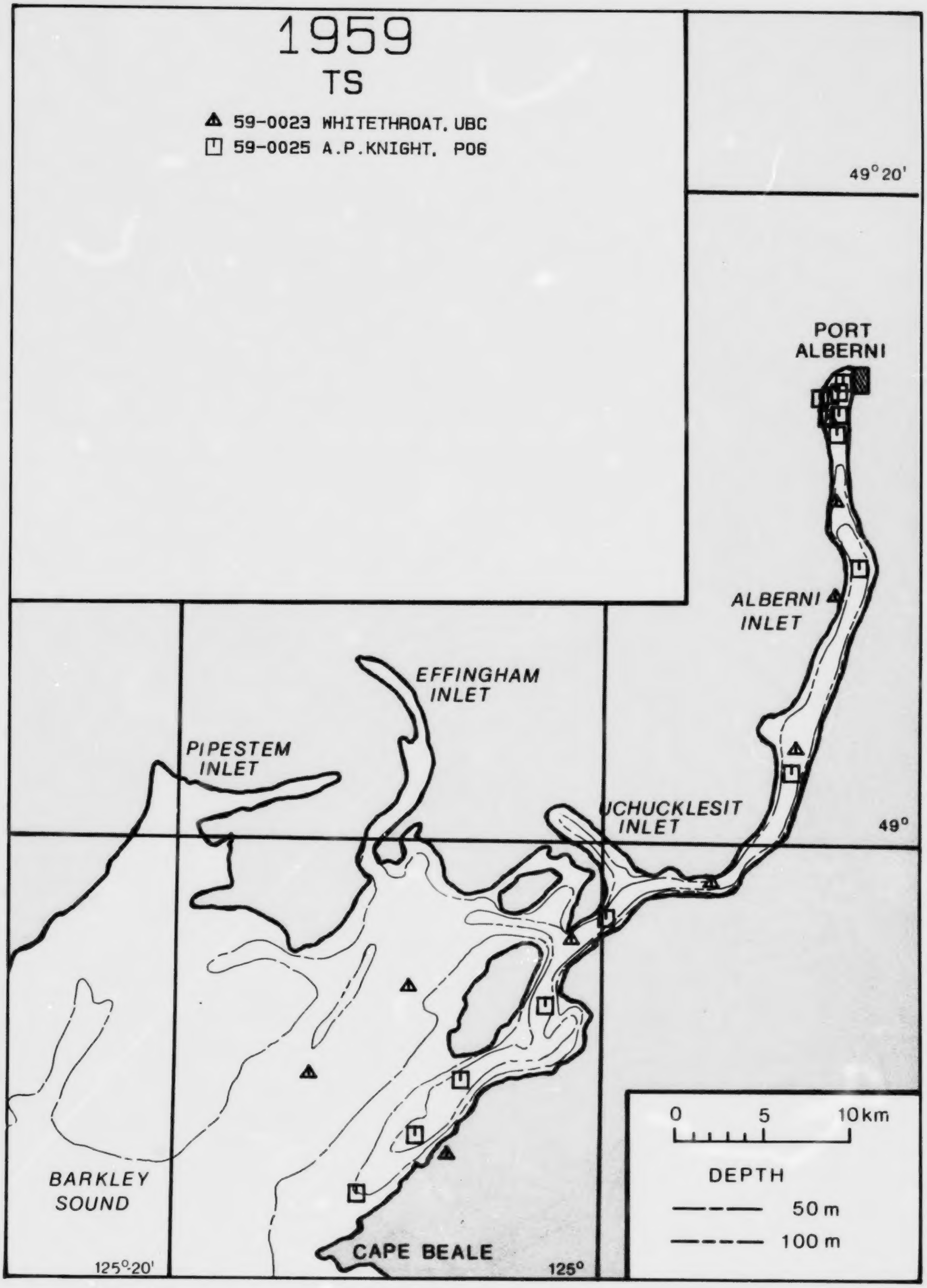

140.0
1000 m
2000 m
3000 m
0
100 km
1958
CM
⚠ 58-0028 VITYAZ (USSR)
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

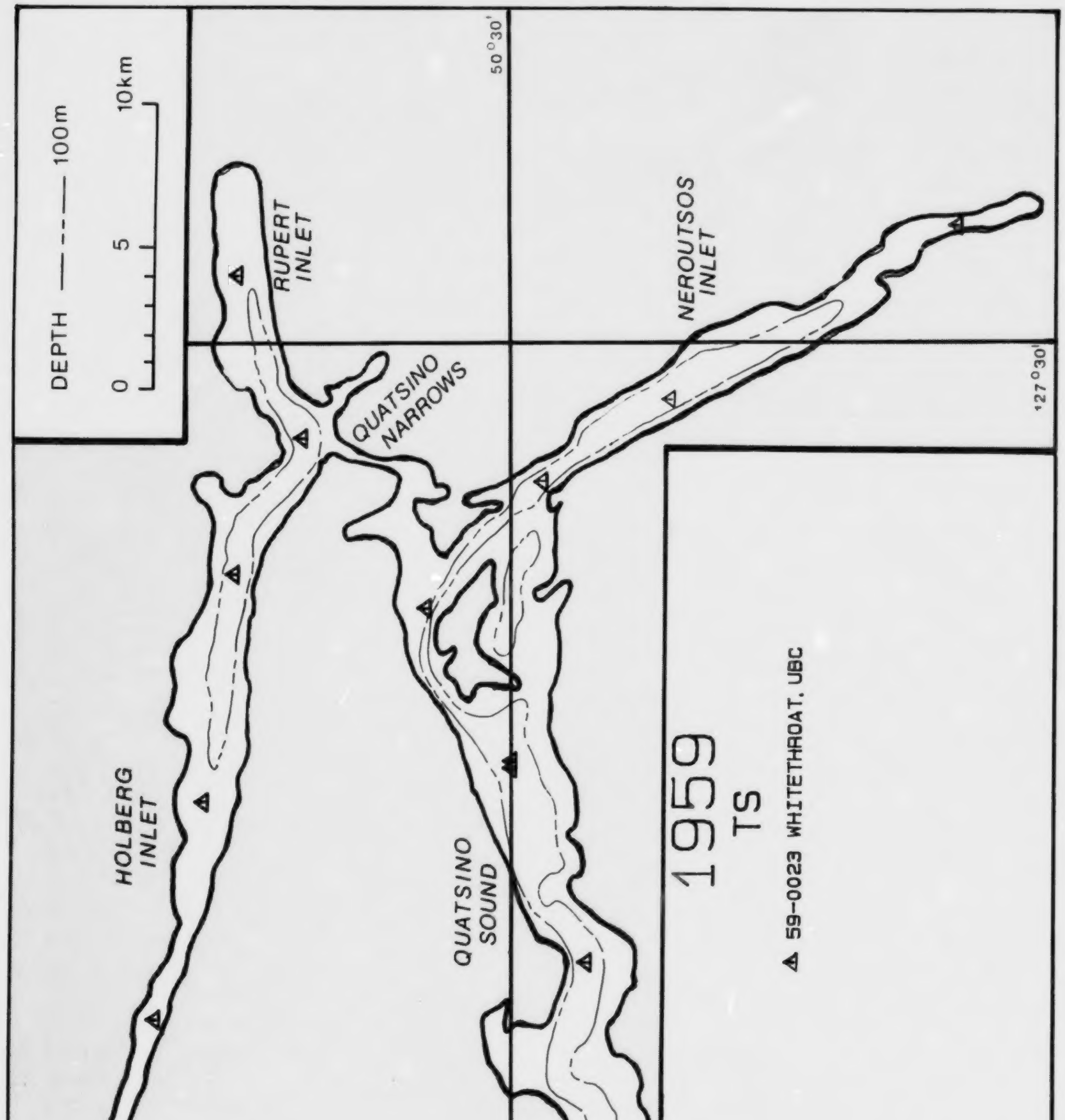

140.0
1000 m
2000 m
3000 m
0
100 km
1959
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
54-0024 POG
59-0011A OSHAWA, POG
59-0019 OSHAWA, POG
59-0023 WHITETHROAT, UBC
59-0028 BROWN BEAR, UW
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

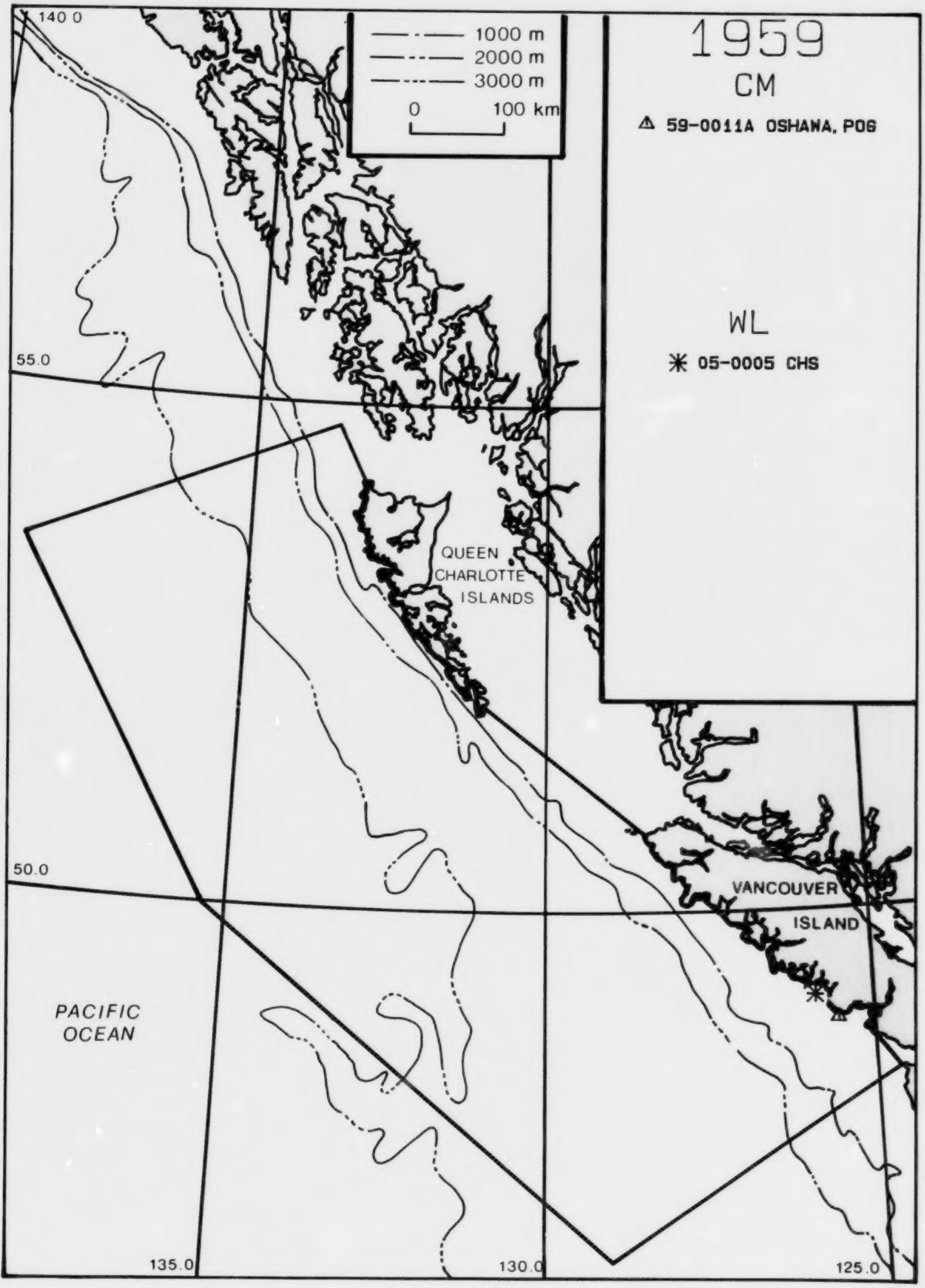

1000 m
2000 m
3000 m
0
100 km
1959
TS
△ 59-0011B OSHAWA, POG
☐ 59-0011C OSHAWA, POG
▽ 59-0018 OSHAWA, POG
◇ 59-0024 WHITETHROAT, POG
○ 59-0025 A.P.KNIGHT, POG
⧗ 59-0026 TORDENSKJOLD (US)
◁ 59-0027 PIONEER, FWS (US)
↑ 59-0029 BROWN BEAR, UW
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

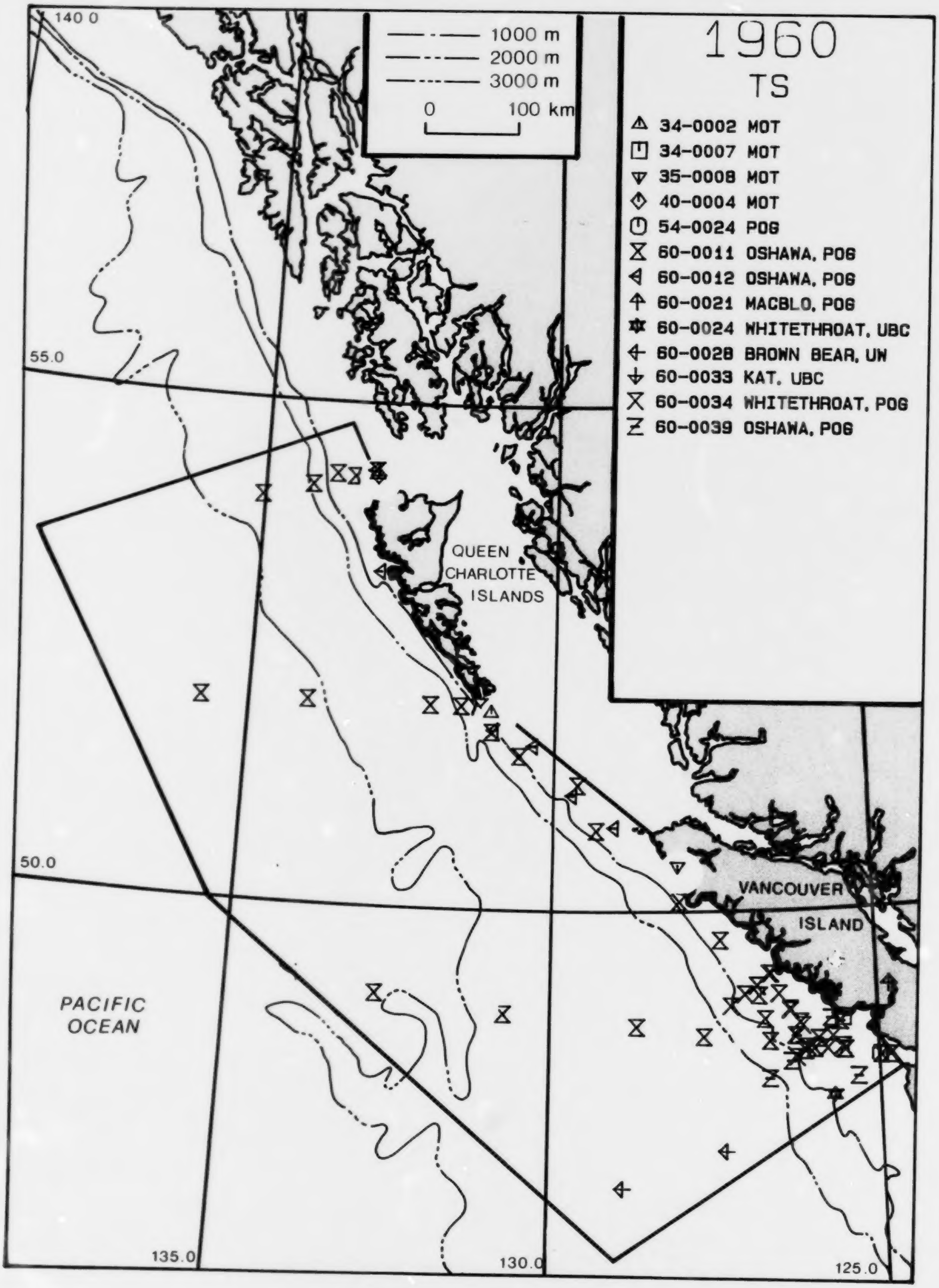

1959
TS
△ 34-0007 MOT
□ 35-0008 MOT
▽ 54-0024 POG
◇ 59-0011A OSHAWA, POG
○ 59-0019 OSHAWA, POG
⋈ 59-0023 WHITETHROAT, UBC
▽ 59-0028 BROWN BEAR, UW
0
50 km
VANCOUVER
ISLAND
BARKLEY
SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

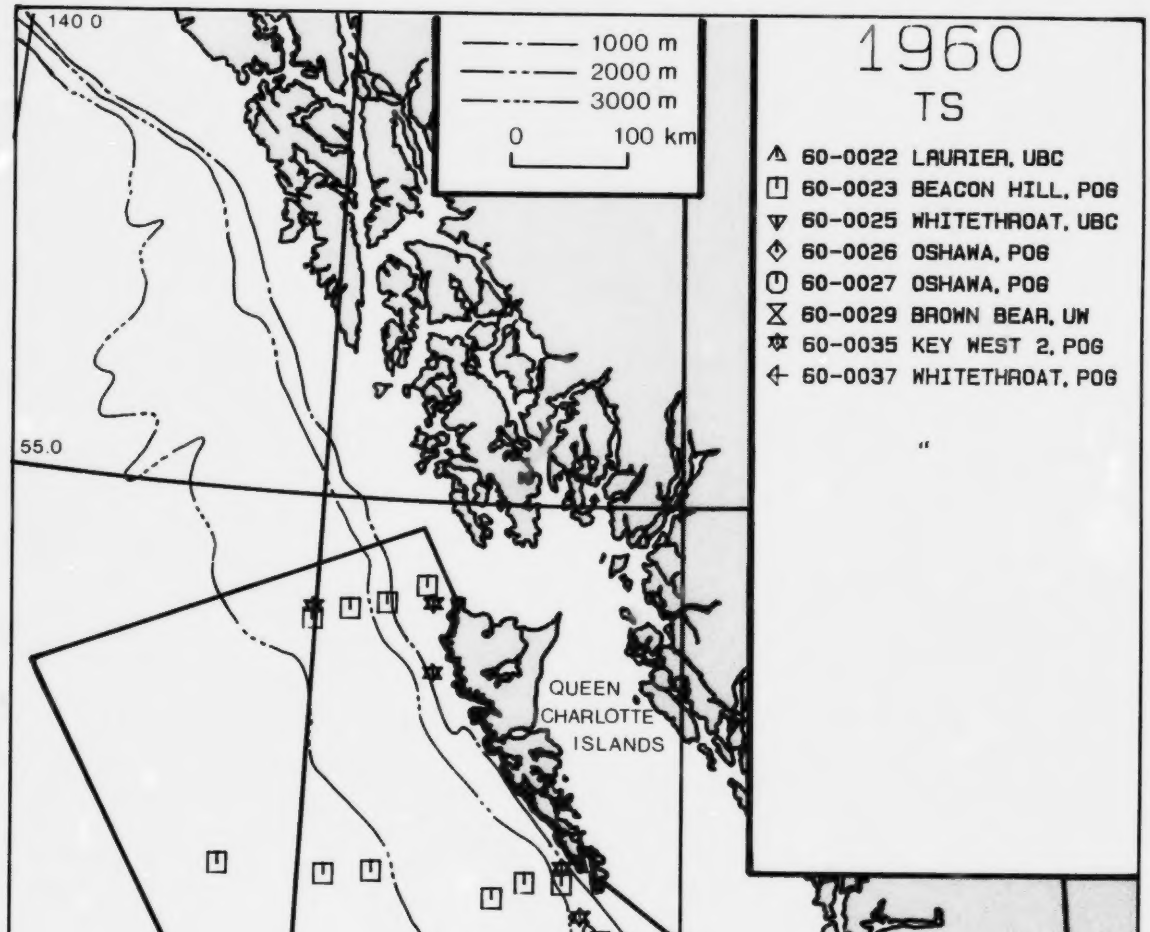

1959
TS
△ 59-0011B OSHAWA, POG
□ 59-0011C OSHAWA, POG
▽ 59-0018 OSHAWA, POG
◇ 59-0024 WHITETHROAT, POG
⊡ 59-0025 A.P.KNIGHT, POG
⧖ 59-0029 BROWN BEAR, UW
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

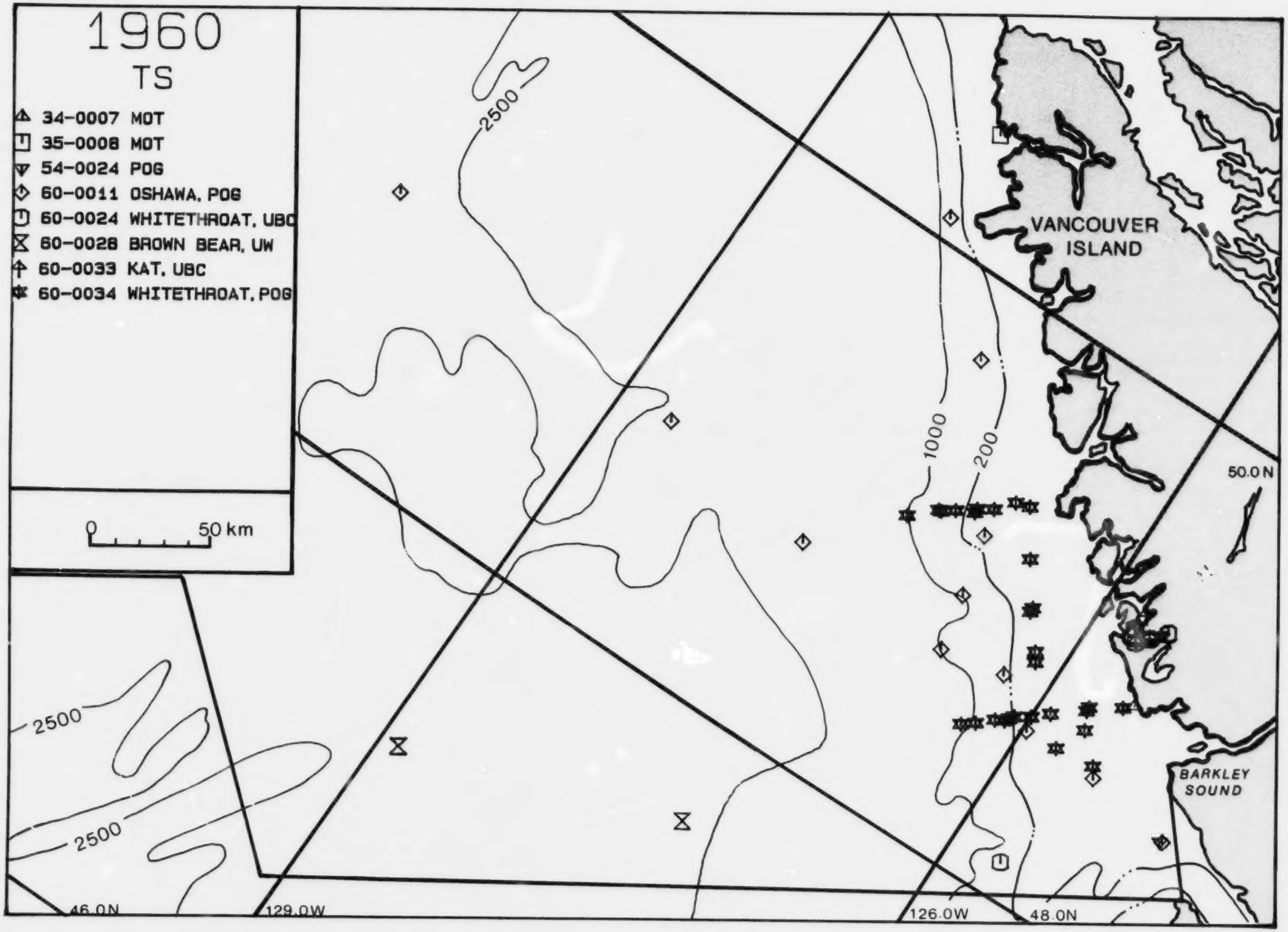

1959
TS
▲ 59-0023 WHITETHROAT, UBC
☐ 59-0025 A.P.KNIGHT, POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

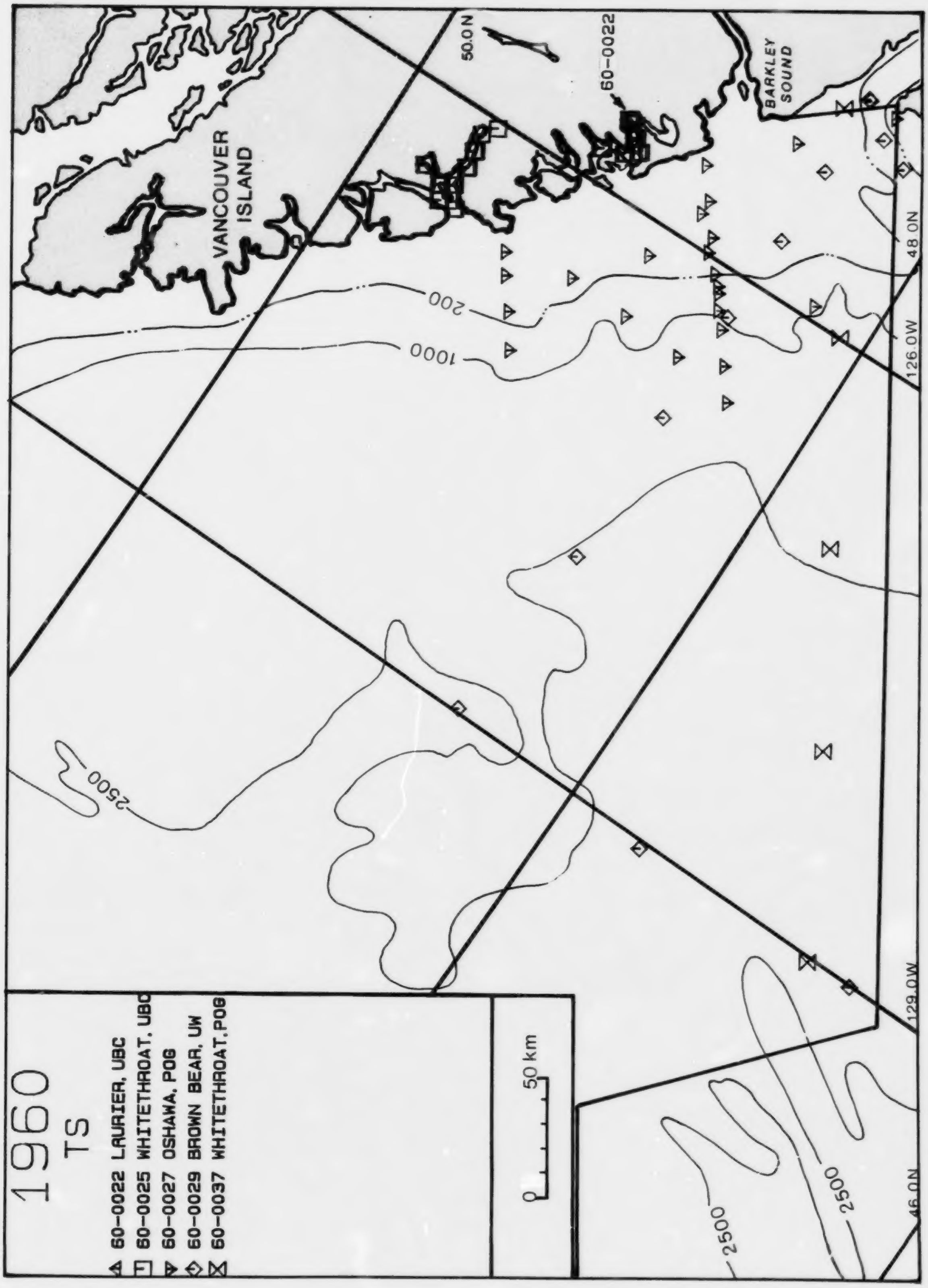

DEPTH
100m
0
5
10km
RUPERT INLET
QUATSINO NARROWS
NEROUTSOS INLET
HOLBERG INLET
QUATSINO SOUND
50°30'
127°30'
128°
1959
TS
59-0023 WHITETHROAT, UBC

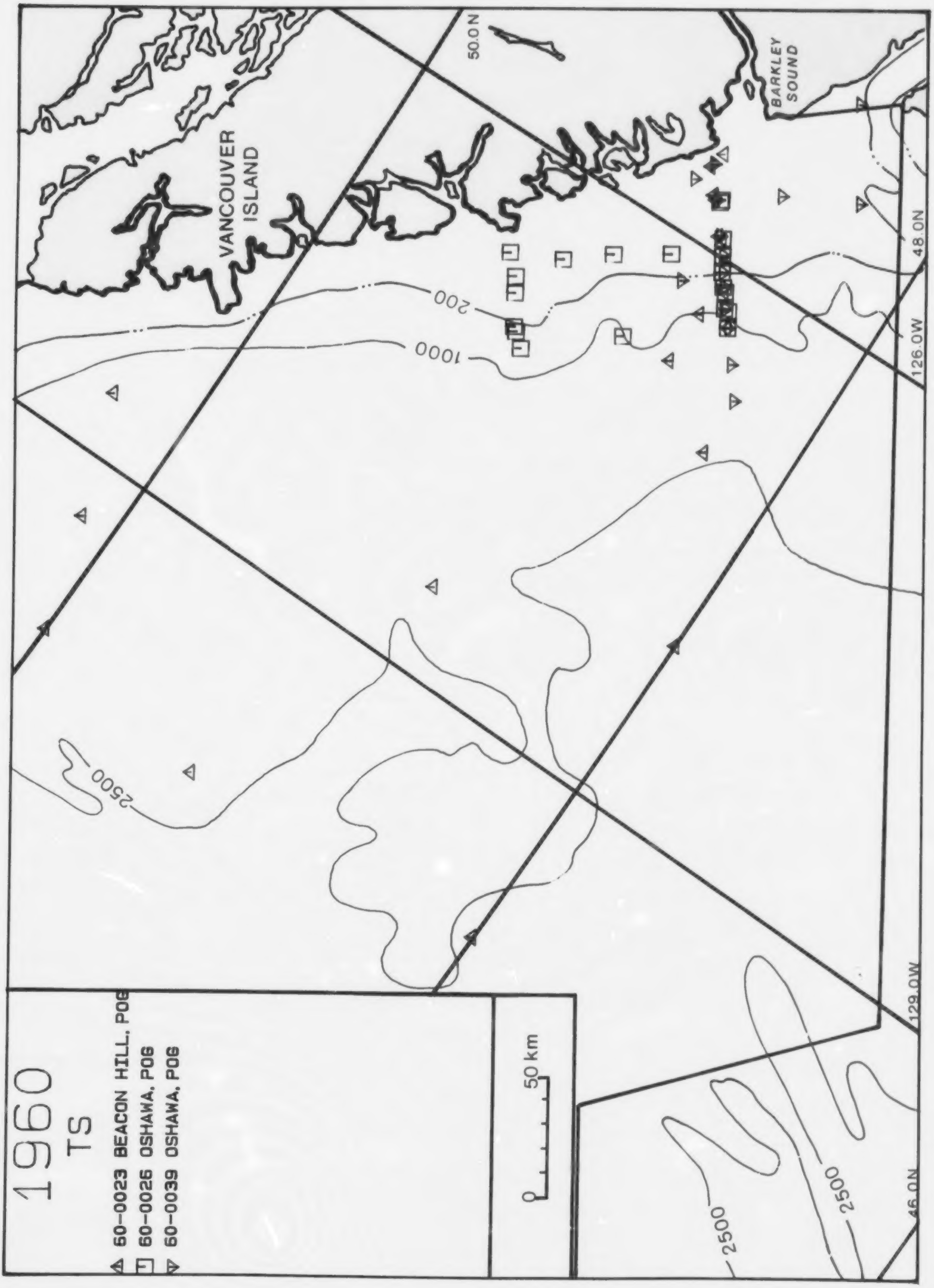

140.0
1000 m
2000 m
3000 m
0
100 km
1959
CM
△ 59-0011A OSHAWA, P06
WL
✳ 05-0005 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

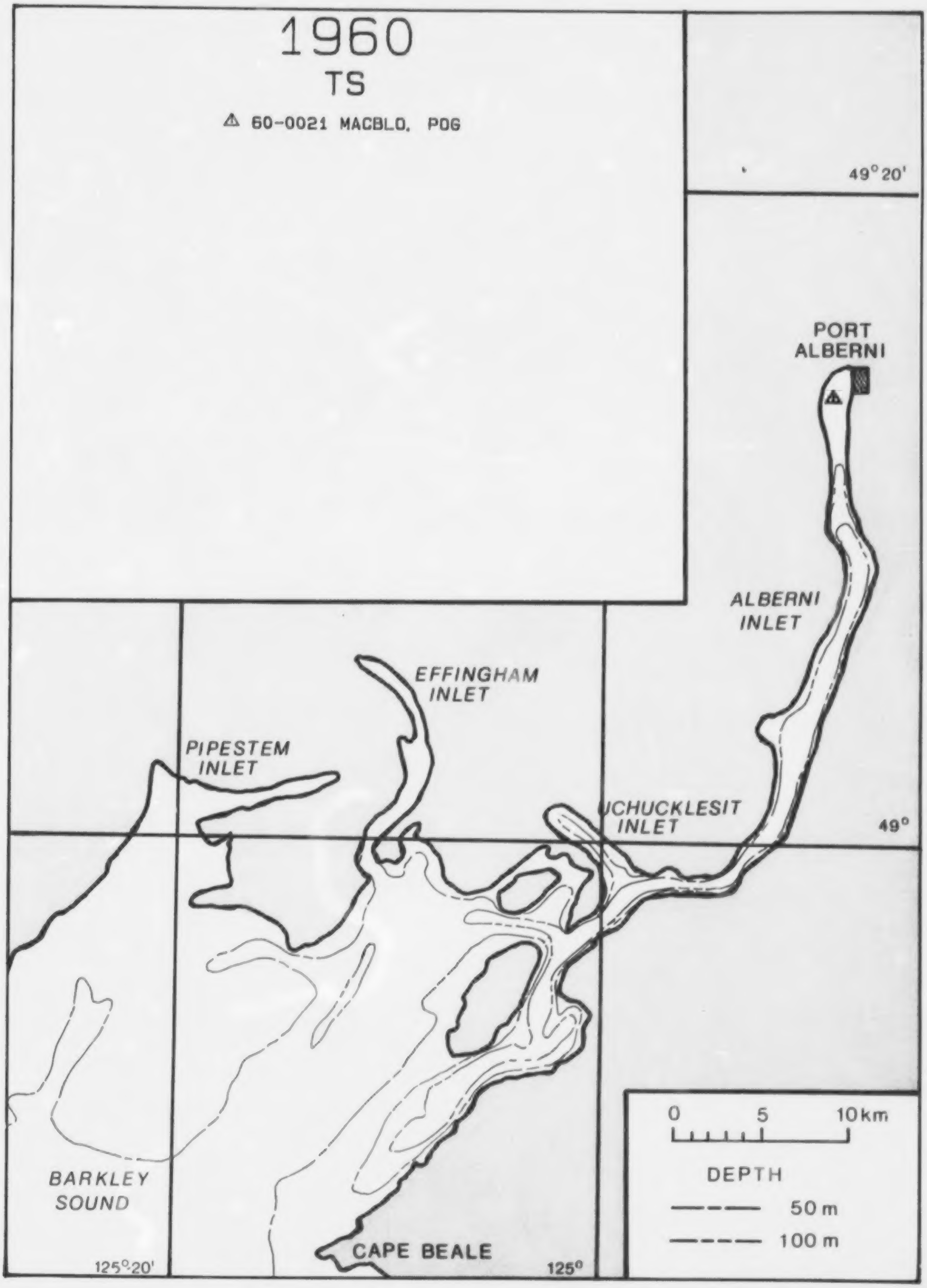

1000 m
2000 m
3000 m
0
100 km
1960
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
54-0024 POG
60-0011 OSHAWA, POG
60-0012 OSHAWA, POG
60-0021 MACBLO, POG
60-0024 WHITETHROAT, UBC
60-0028 BROWN BEAR, UW
60-0033 KAT, UBC
60-0034 WHITETHROAT, POG
60-0039 OSHAWA, POG
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

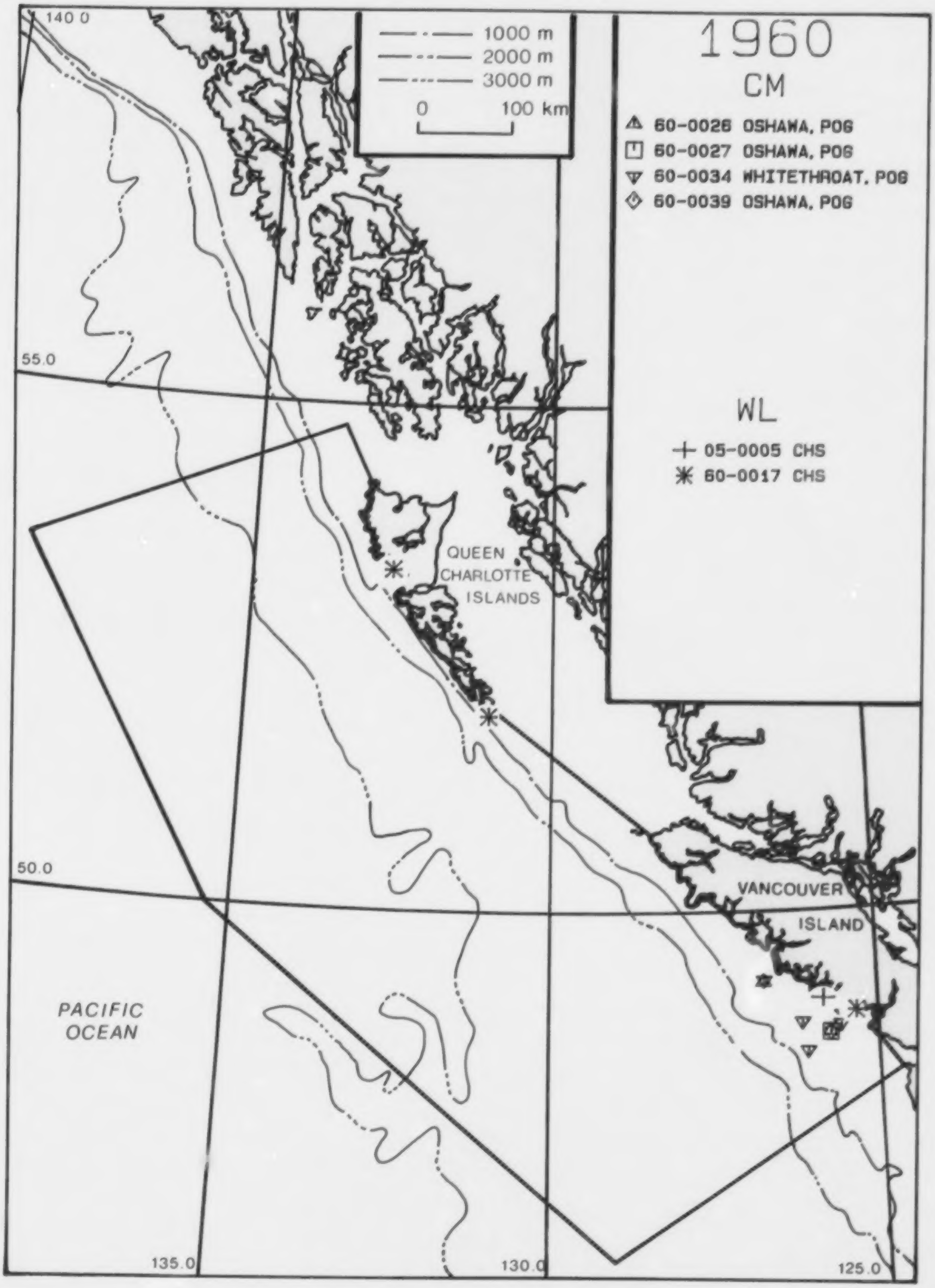

1960
TS
60-0022 LAURIER, UBC
60-0023 BEACON HILL, POG
60-0025 WHITETHROAT, UBC
60-0026 OSHAWA, POG
60-0027 OSHAWA, POG
60-0029 BROWN BEAR, UW
60-0035 KEY WEST 2, POG
60-0037 WHITETHROAT, POG
1000 m
2000 m
3000 m
0
100 km
140 0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

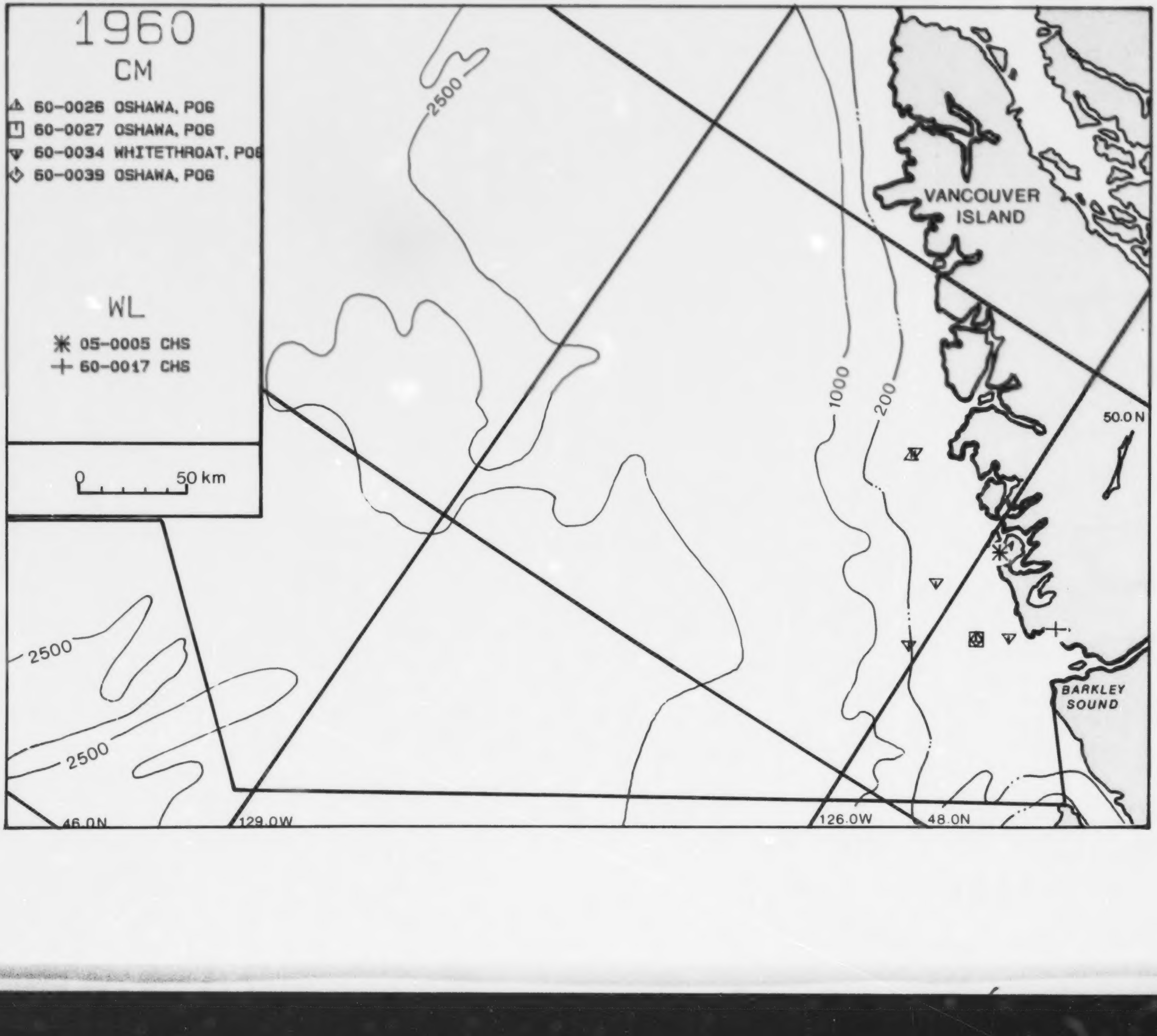

1960
TS
34-0007 MOT
35-0008 MOT
54-0024 POG
60-0011 OSHAWA, POG
60-0024 WHITETHROAT, UBC
60-0028 BROWN BEAR, UW
60-0033 KAT, UBC
60-0034 WHITETHROAT, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
1000
200
2500
2500
50.0N
48.0N
46.0N
126.0W
129.0W

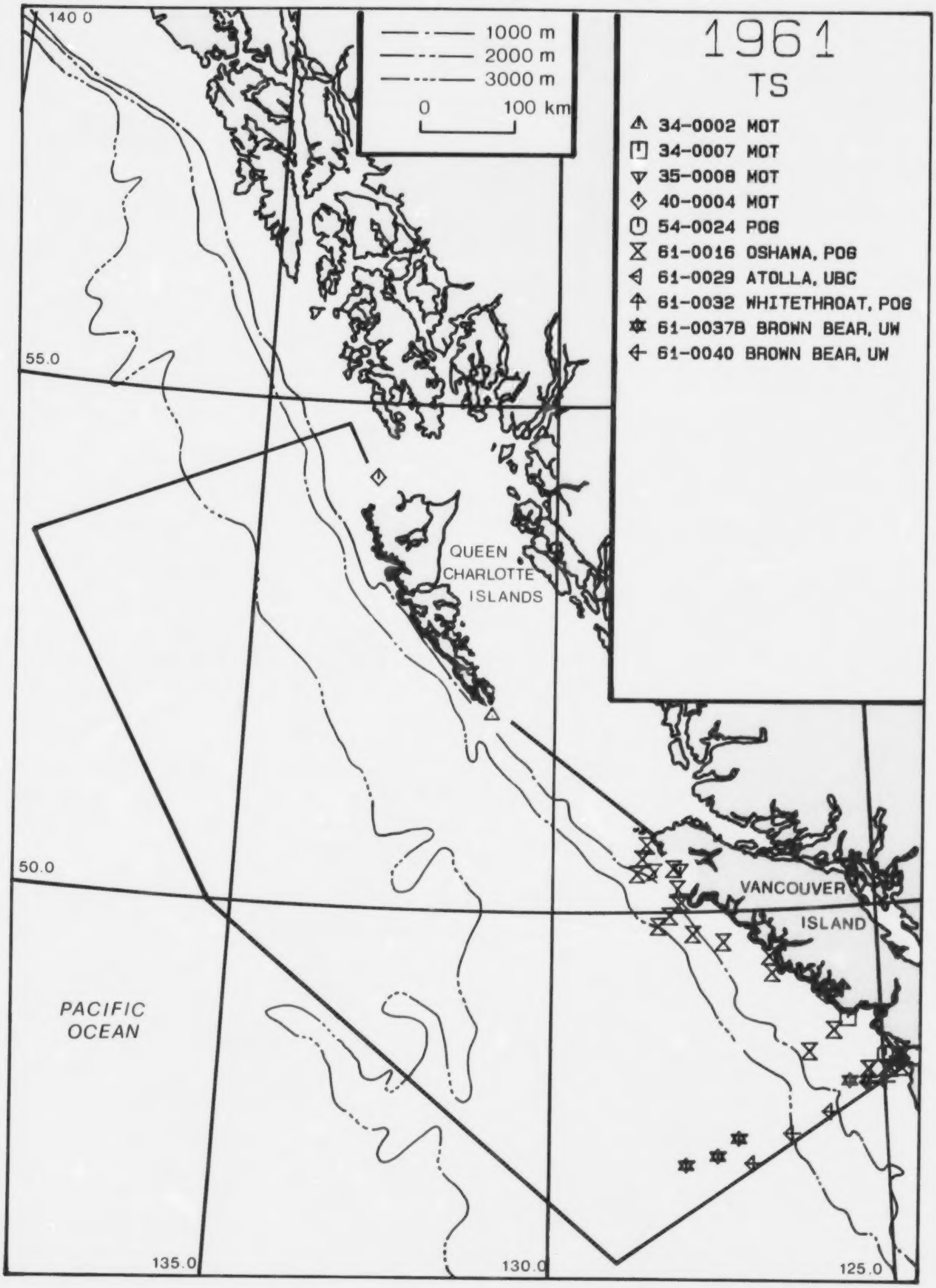

1960
TS
60-0022 LAURIER, UBC
60-0025 WHITETHROAT, UBC
60-0027 OSHAWA, POG
60-0029 BROWN BEAR, UW
60-0037 WHITETHROAT, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
60-0022
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

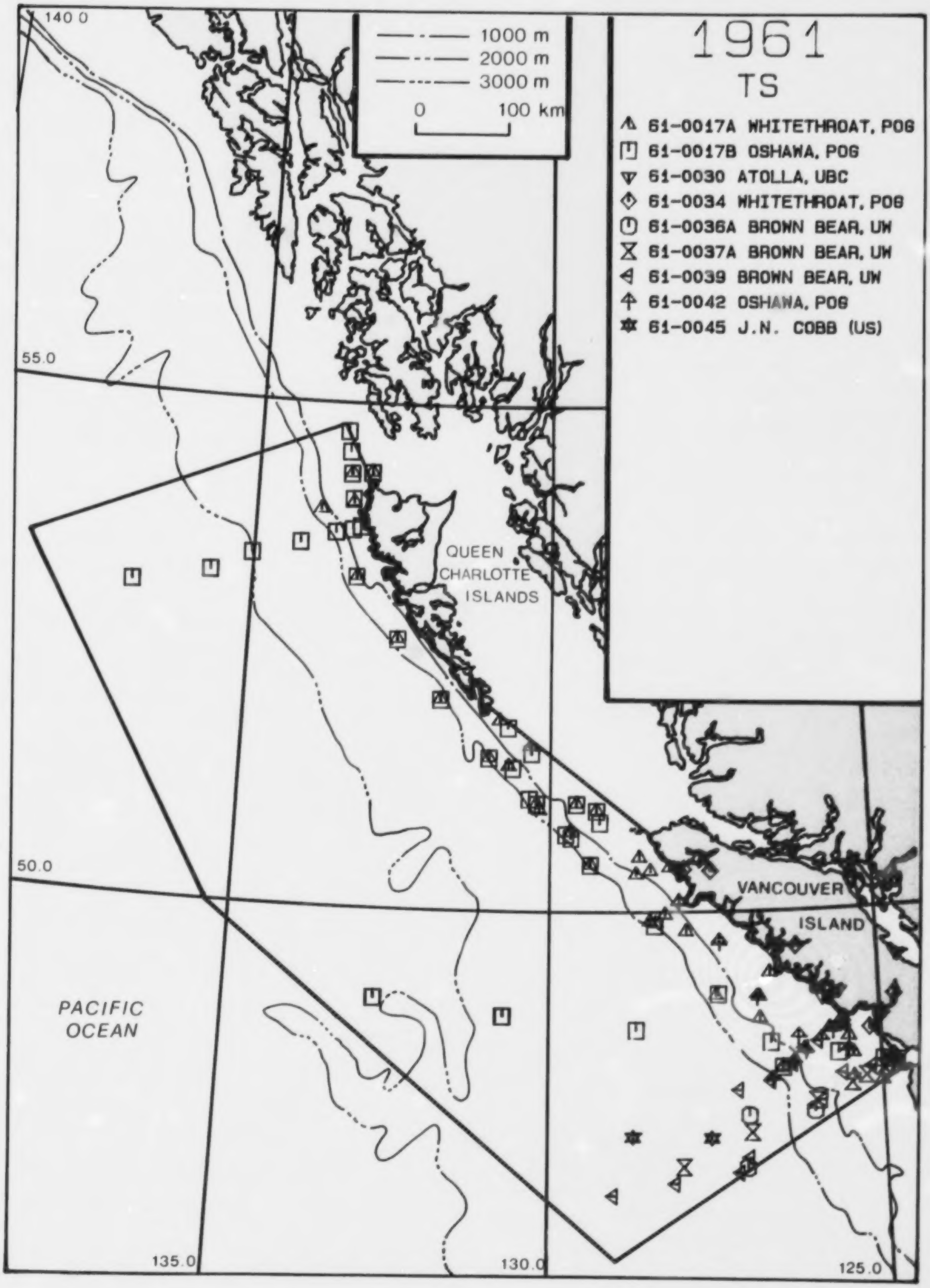

1960
TS
◁ 60-0023 BEACON HILL, POG
☐ 60-0026 OSHAWA, POG
▷ 60-0039 OSHAWA, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

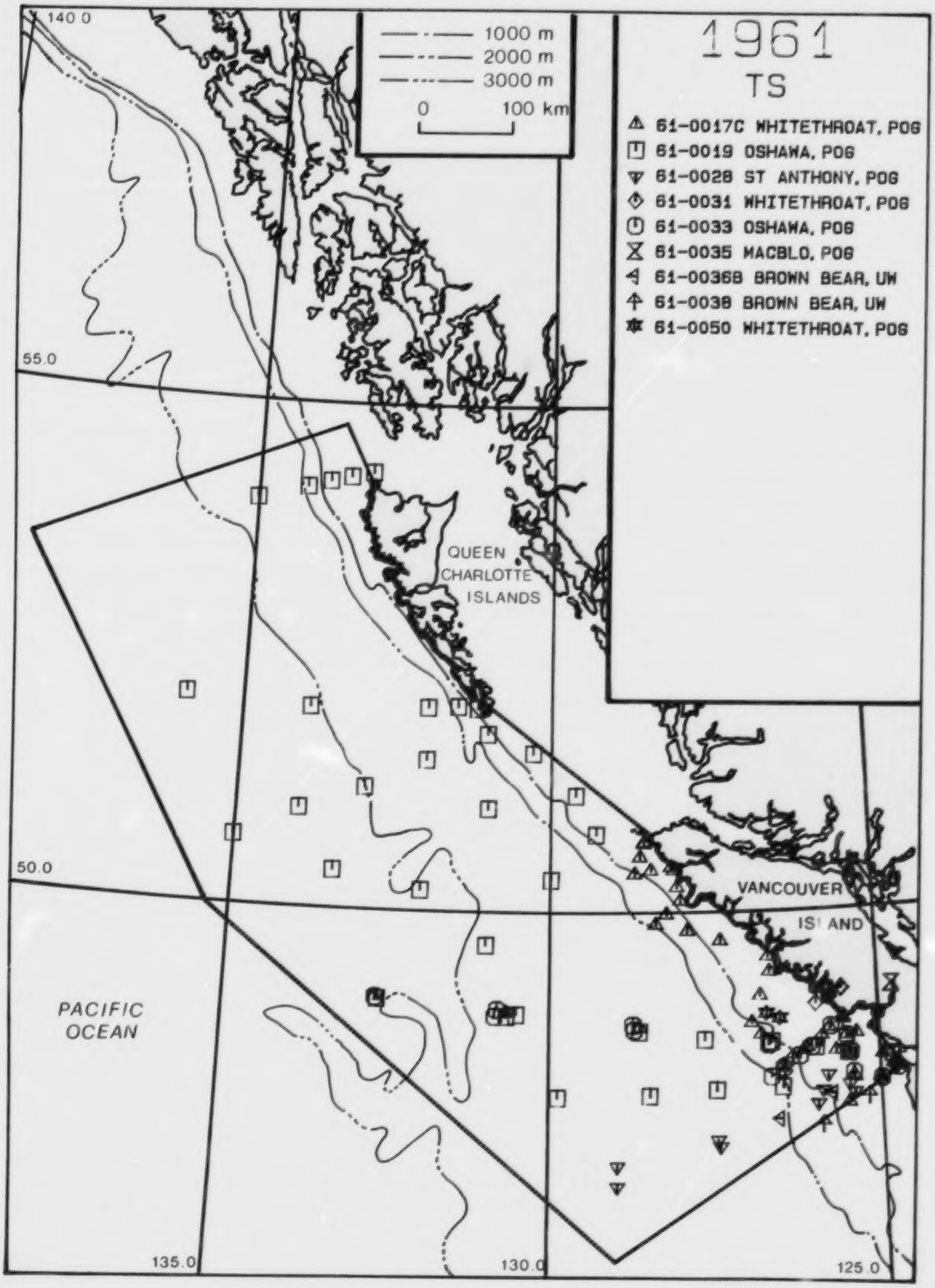

1960
TS
△ 60-0021 MACBLO, POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125° 20'
125°
0
5
10 km
DEPTH
50 m
100 m

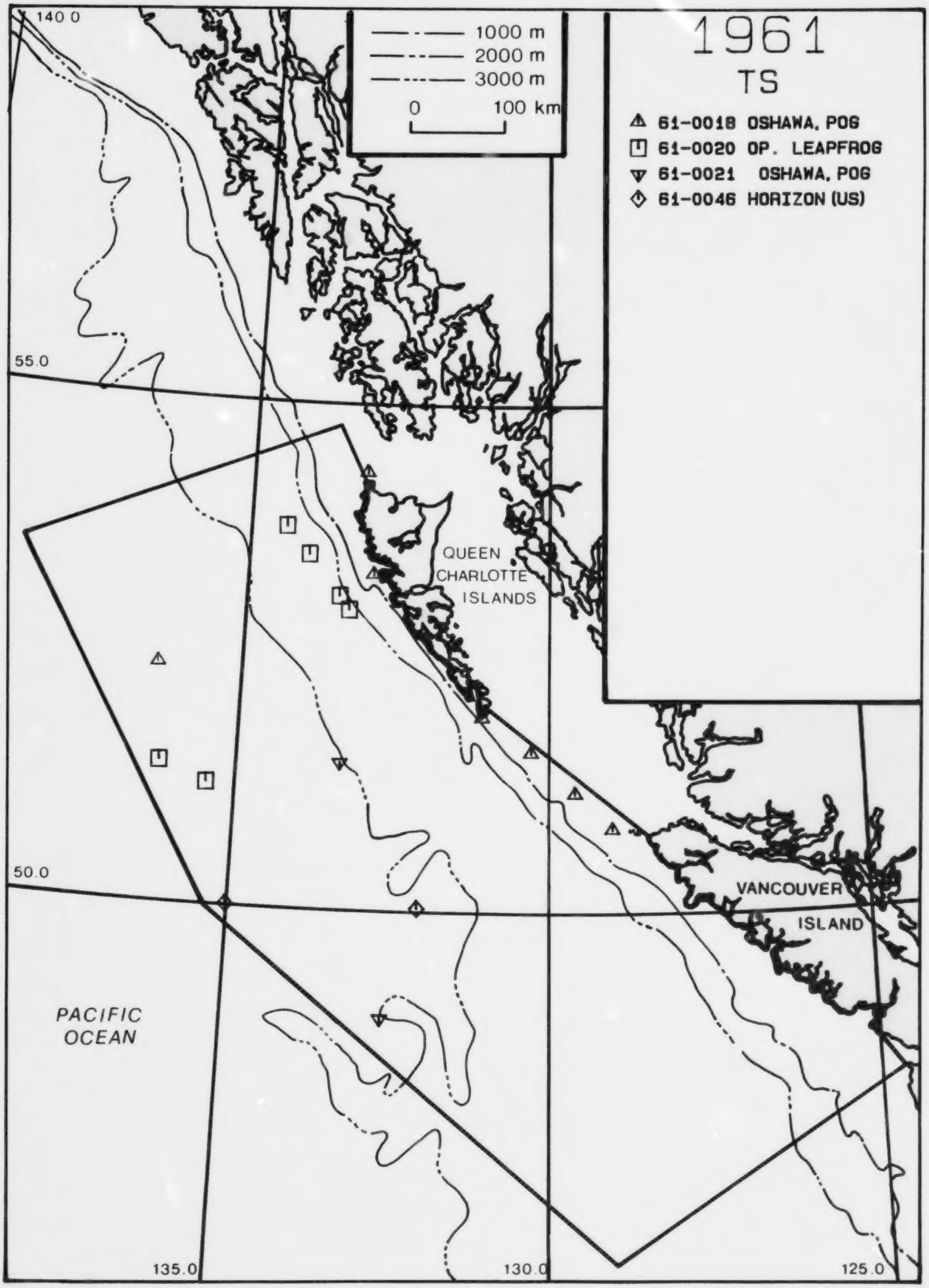

140.0
1000 m
2000 m
3000 m
0
100 km
1960
CM
△ 60-0026 OSHAWA, POG
☐ 60-0027 OSHAWA, POG
▽ 60-0034 WHITETHROAT, POG
◇ 60-0039 OSHAWA, POG
WL
+ 05-0005 CHS
✳ 60-0017 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

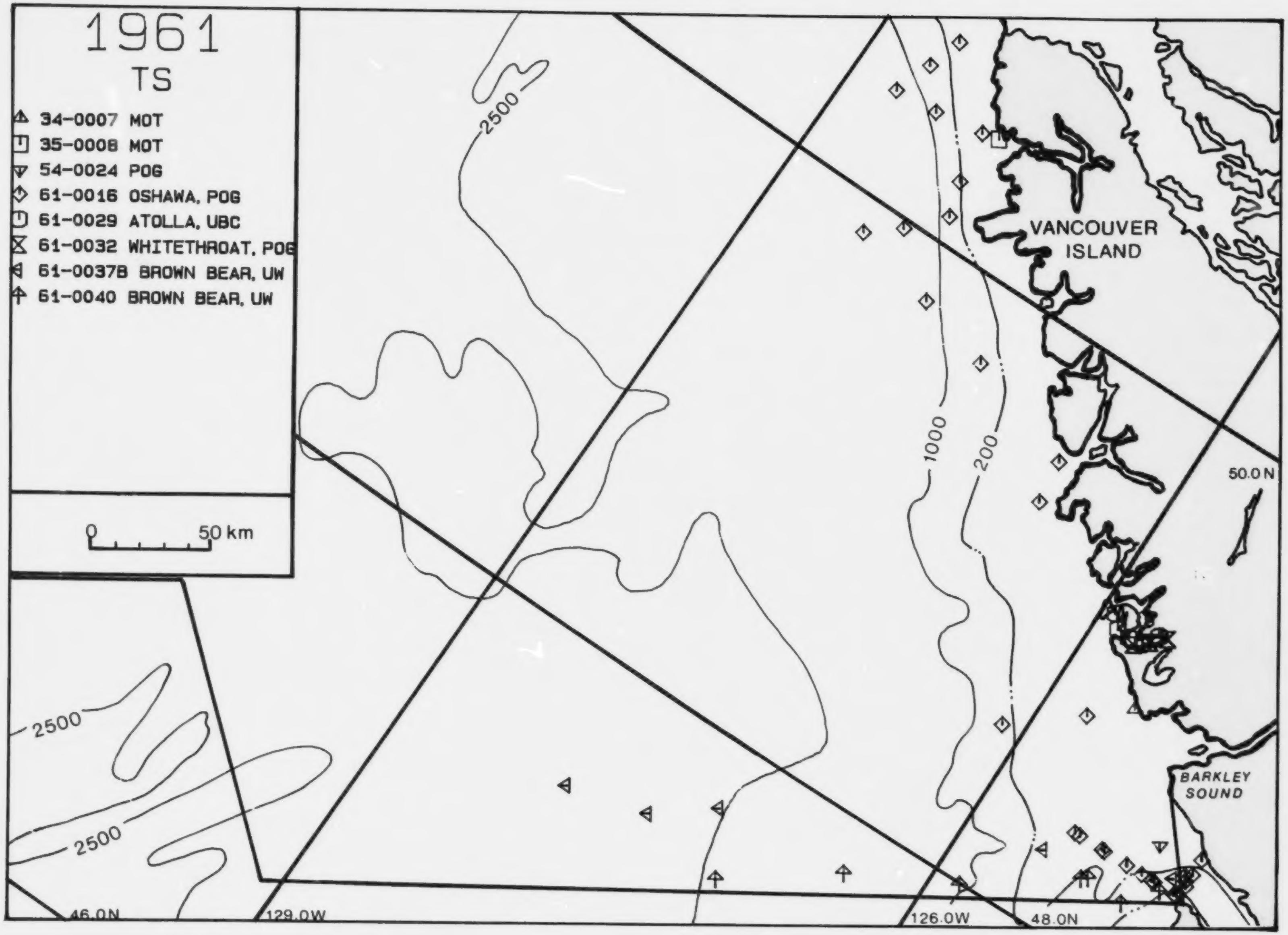

1960
CM
△ 60-0026 OSHAWA, POG
☐ 60-0027 OSHAWA, POG
▽ 60-0034 WHITETHROAT, POG
◇ 60-0039 OSHAWA, POG
WL
✱ 05-0005 CHS
+ 60-0017 CHS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
1000
200
2500
2500
50.0N
48.0N
46.0N
126.0W
129.0W

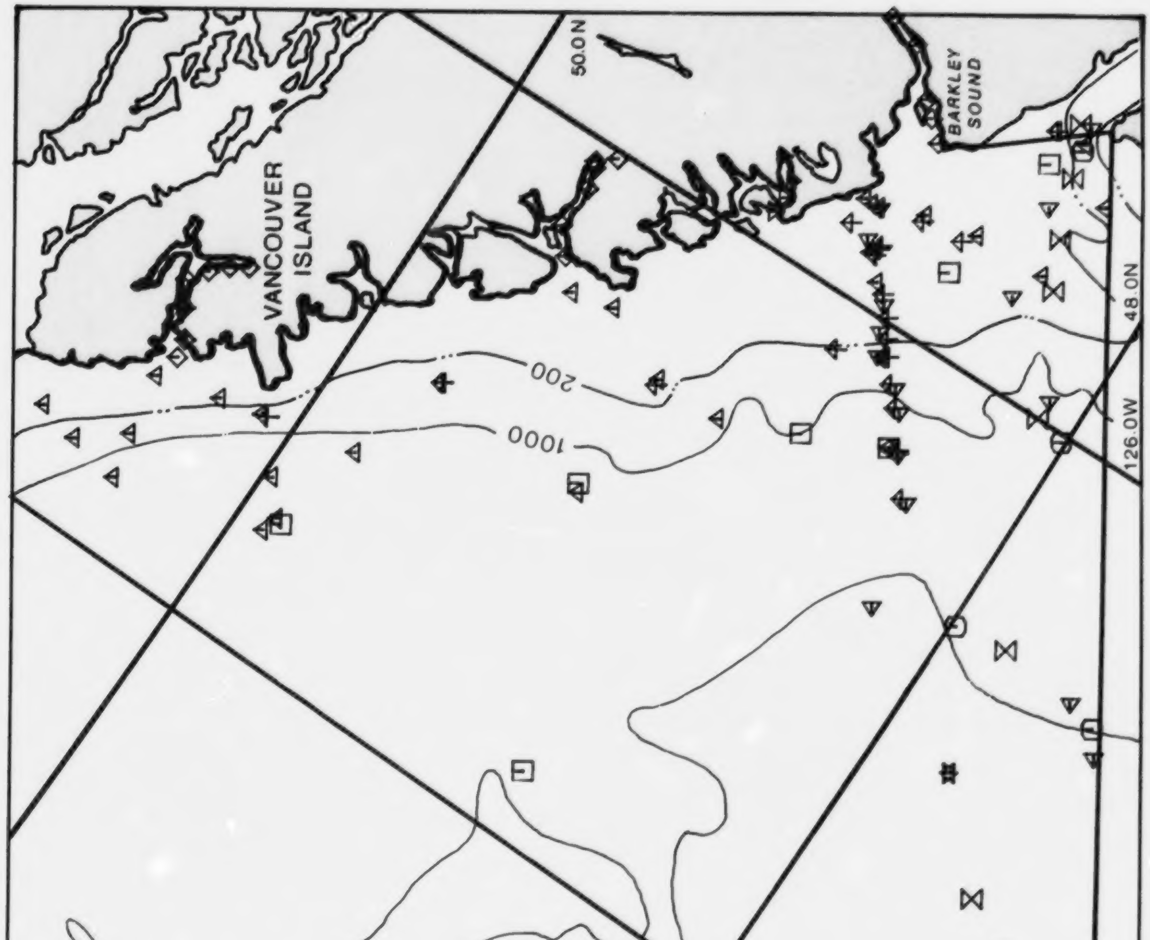

140.0
1000 m
2000 m
3000 m
0
100 km
1961
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
54-0024 POG
61-0016 OSHAWA, POG
61-0029 ATOLLA, UBC
61-0032 WHITETHROAT, POG
61-0037B BROWN BEAR, UW
61-0040 BROWN BEAR, UW
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

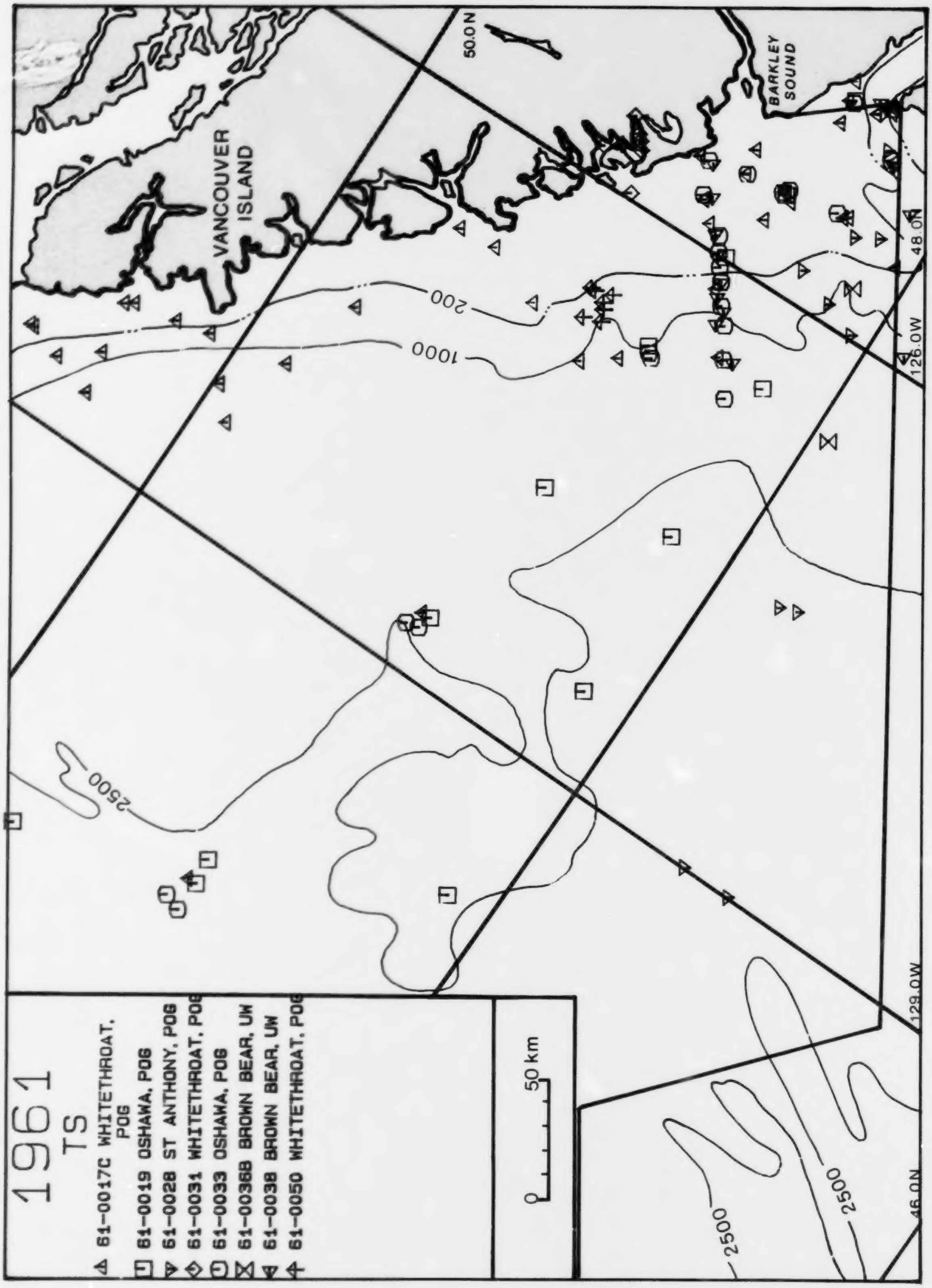

1961
TS
61-0017A WHITETHROAT, POG
61-0017B OSHAWA, POG
61-0030 ATOLLA, UBC
61-0034 WHITETHROAT, POG
61-0036A BROWN BEAR, UW
61-0037A BROWN BEAR, UW
61-0039 BROWN BEAR, UW
61-0042 OSHAWA, POG
61-0045 J.N. COBB (US)
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

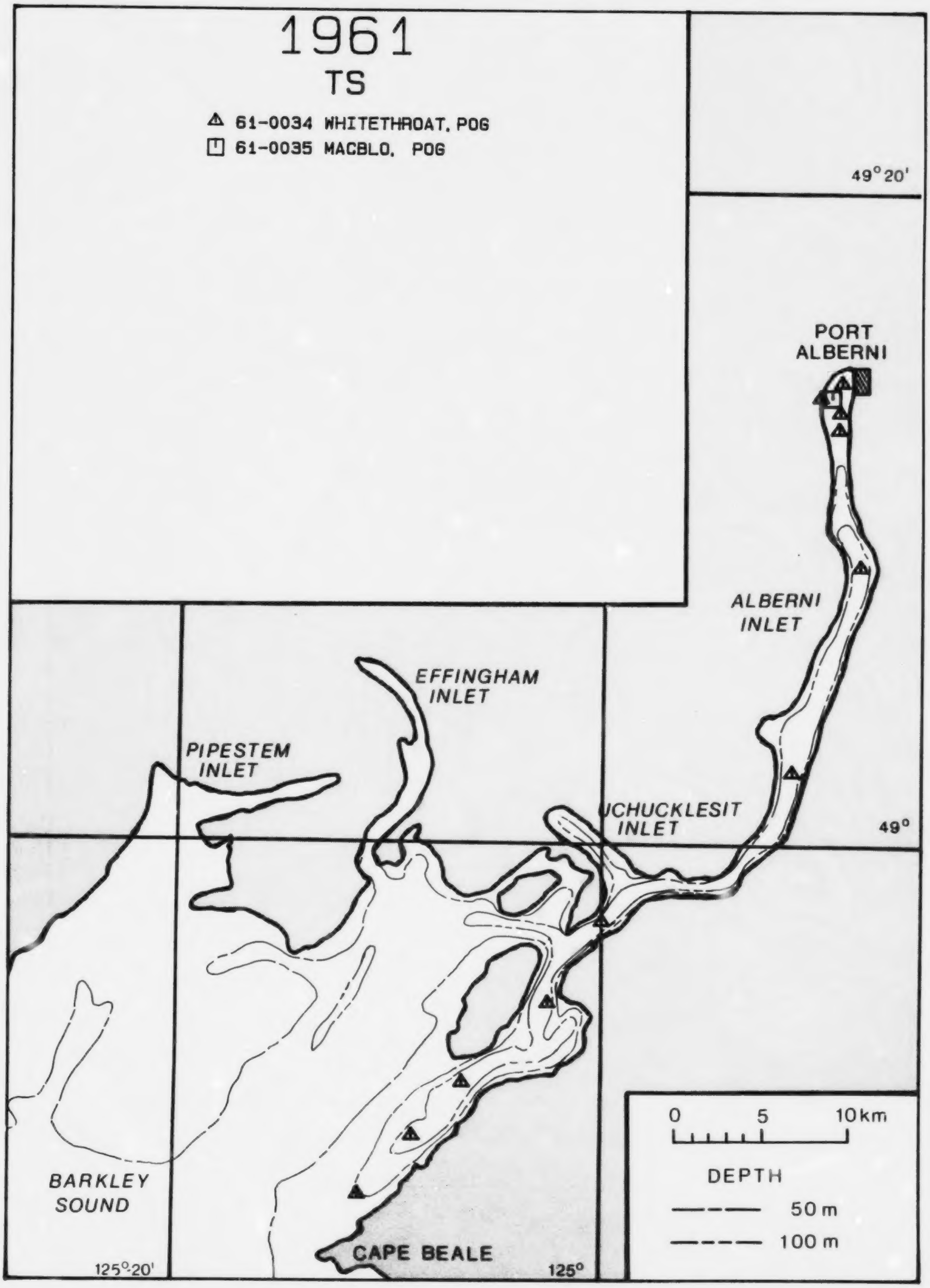

140.0
1000 m
2000 m
3000 m
0
100 km
1961
TS
△ 61-0017C WHITETHROAT, POG
61-0019 OSHAWA, POG
▽ 61-0028 ST ANTHONY, POG
◇ 61-0031 WHITETHROAT, POG
○ 61-0033 OSHAWA, POG
⧗ 61-0035 MACBLO, POG
61-0036B BROWN BEAR, UW
61-0038 BROWN BEAR, UW
61-0050 WHITETHROAT, POG
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

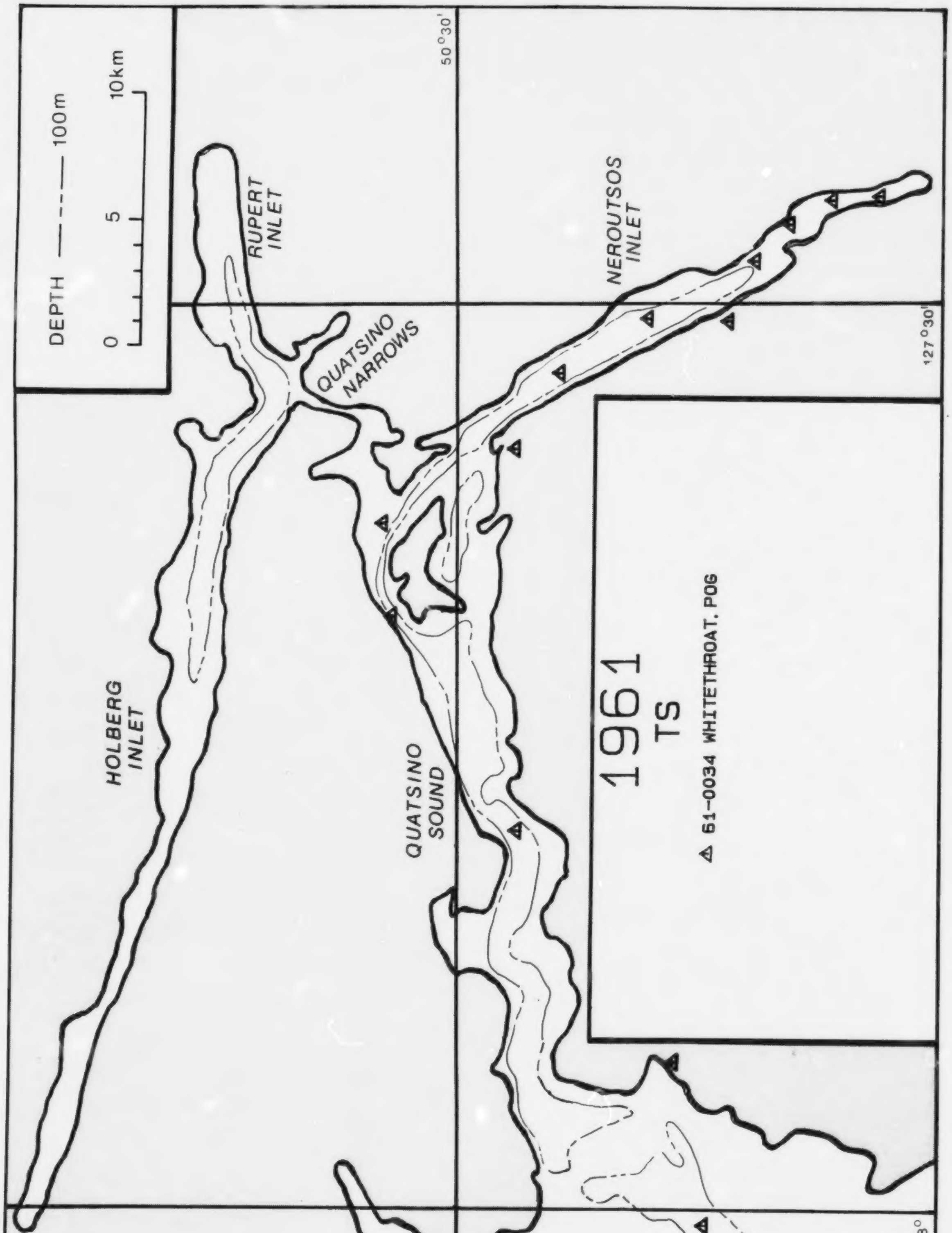

140.0
1000 m
2000 m
3000 m
0
100 km
1961
TS
▲ 61-0018 OSHAWA, POG
☐ 61-0020 OP. LEAPFROG
▼ 61-0021 OSHAWA, POG
◇ 61-0046 HORIZON (US)
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

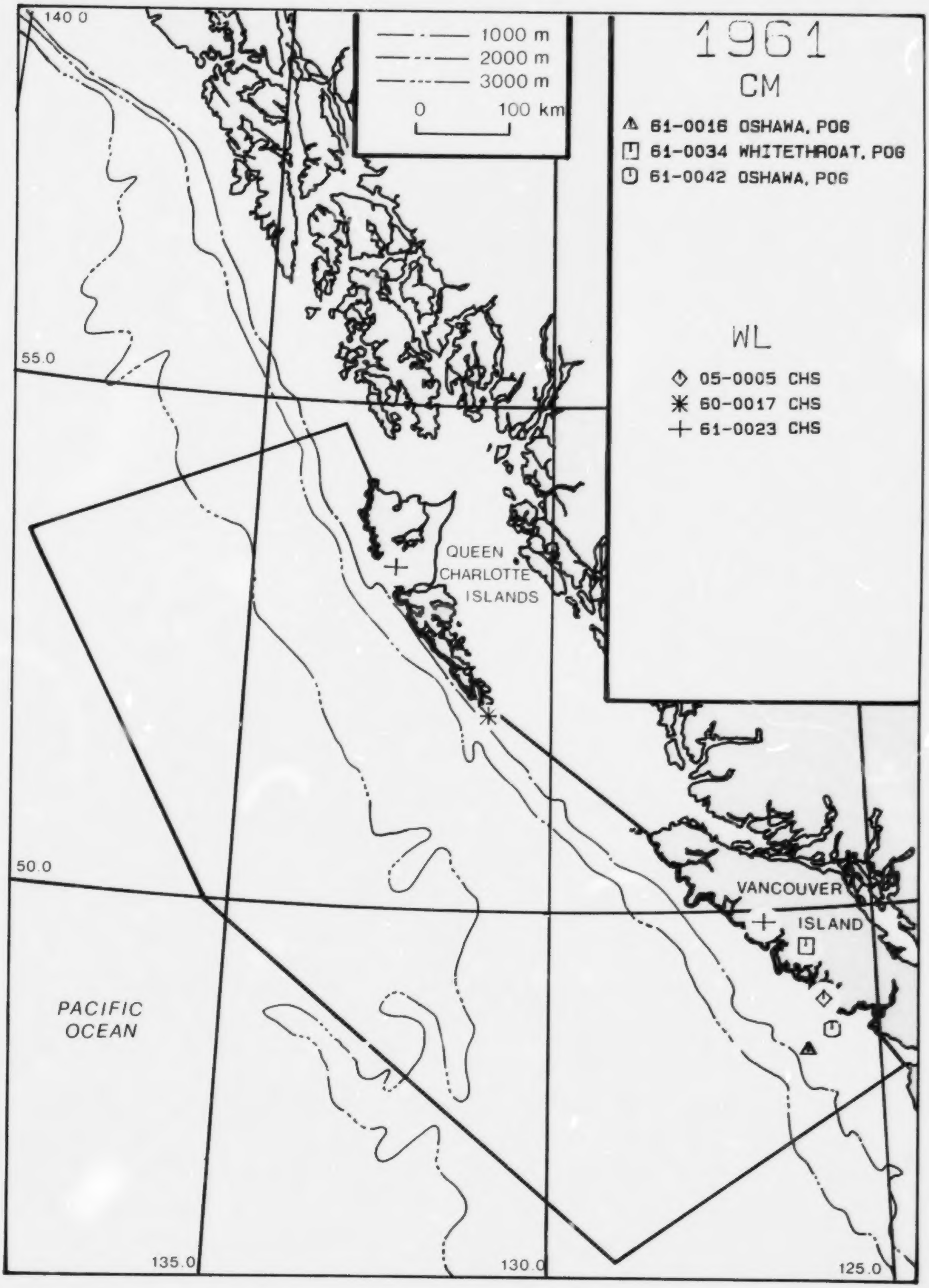

1961
TS
△ 34-0007 MOT
⊔ 35-0008 MOT
▽ 54-0024 POG
◇ 61-0016 OSHAWA, POG
◯ 61-0029 ATOLLA, UBC
⊠ 61-0032 WHITETHROAT, POG
◁ 61-0037B BROWN BEAR, UW
↑ 61-0040 BROWN BEAR, UW
0 50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
1000
200
50.0N
48.0N
46.0N
129.0W
126.0W

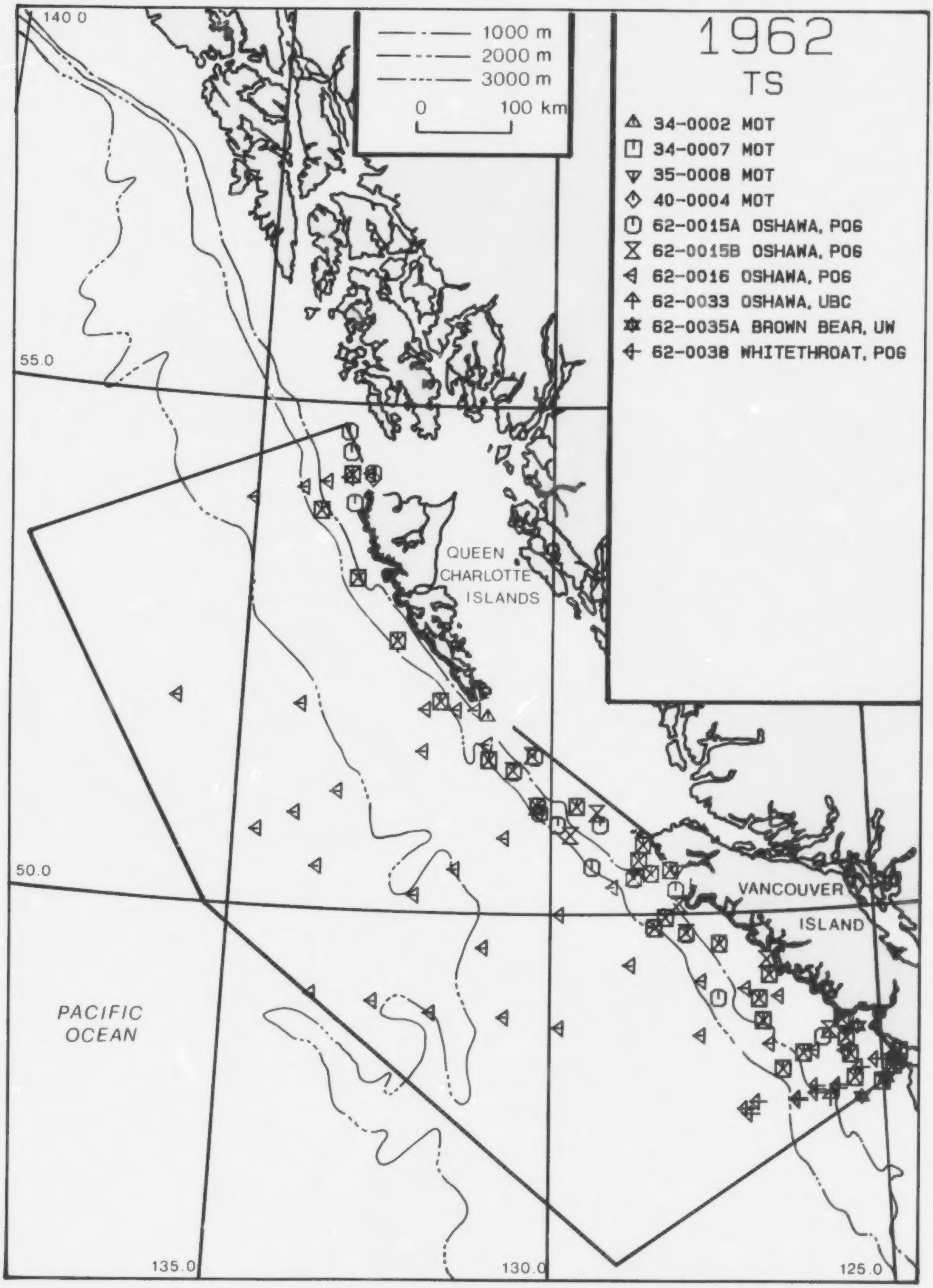

1961
TS
61-0017A WHITETHROAT, POG
61-0017B OSHAWA, POG
61-0030 ATOLLA, UBC
61-0034 WHITETHROAT, POG
61-0036A BROWN BEAR, UW
61-0037A BROWN BEAR, UW
61-0039 BROWN BEAR, UW
61-0042 OSHAWA, POG
61-0045 J.N. COBB (US)
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

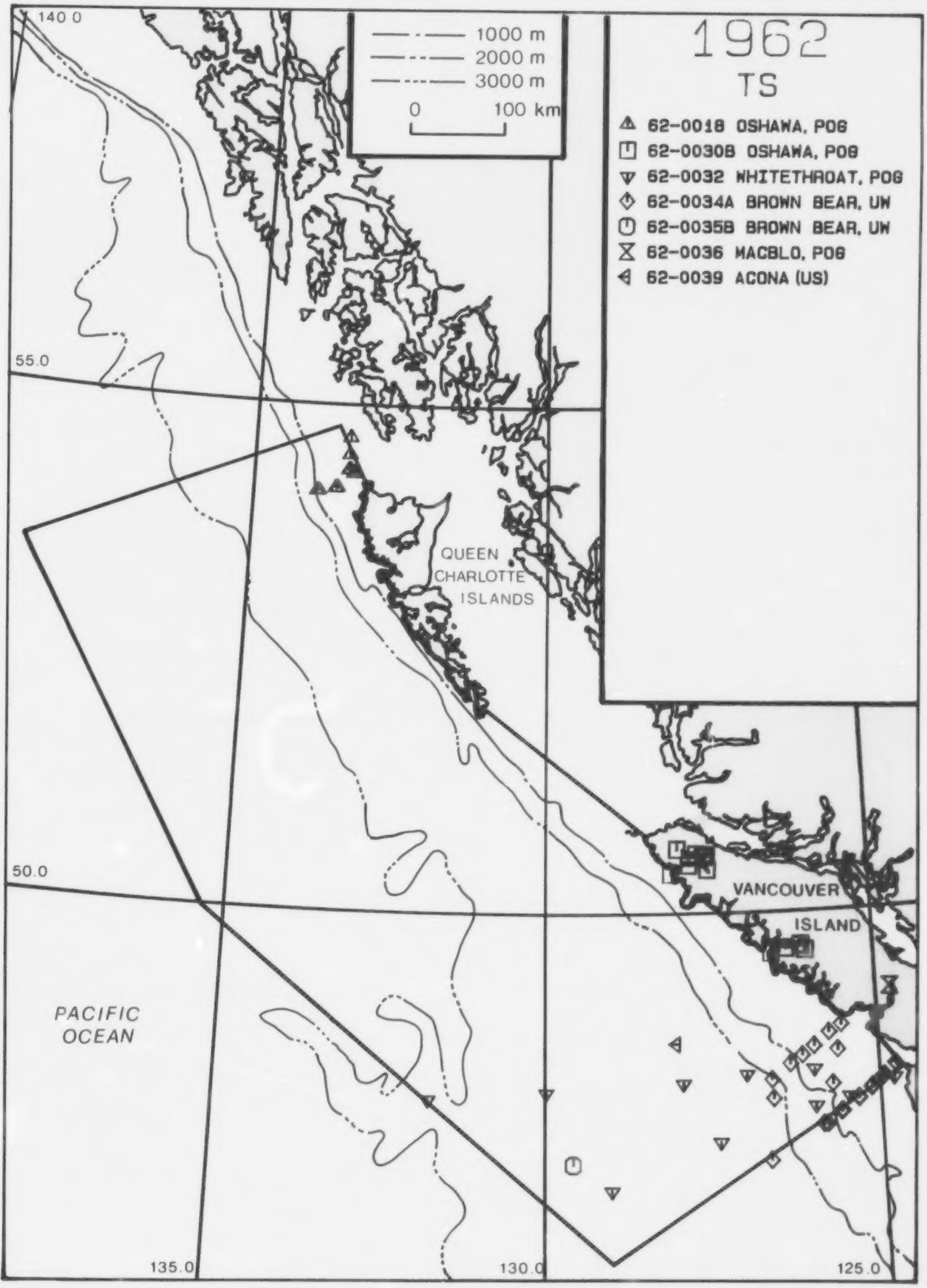

1961
TS
61-0017C WHITETHROAT, POG
61-0019 OSHAWA, POG
61-0028 ST ANTHONY, POG
61-0031 WHITETHROAT, POG
61-0033 OSHAWA, POG
61-0036B BROWN BEAR, UW
61-0038 BROWN BEAR, UW
61-0050 WHITETHROAT, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

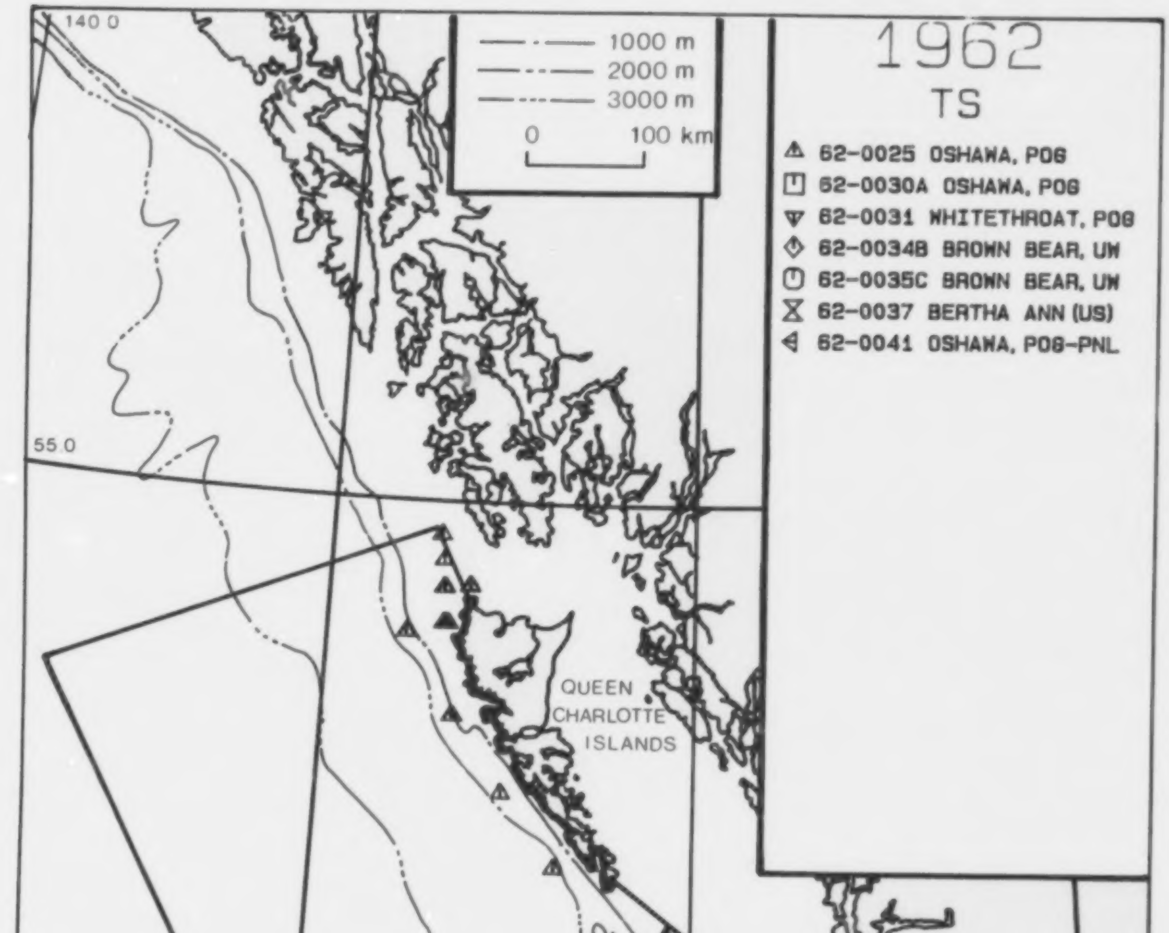

1961
TS
△ 61-0034 WHITETHROAT, POG
☐ 61-0035 MACBLO, POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°-20'
125°
0 5 10 km
DEPTH
50 m
100 m

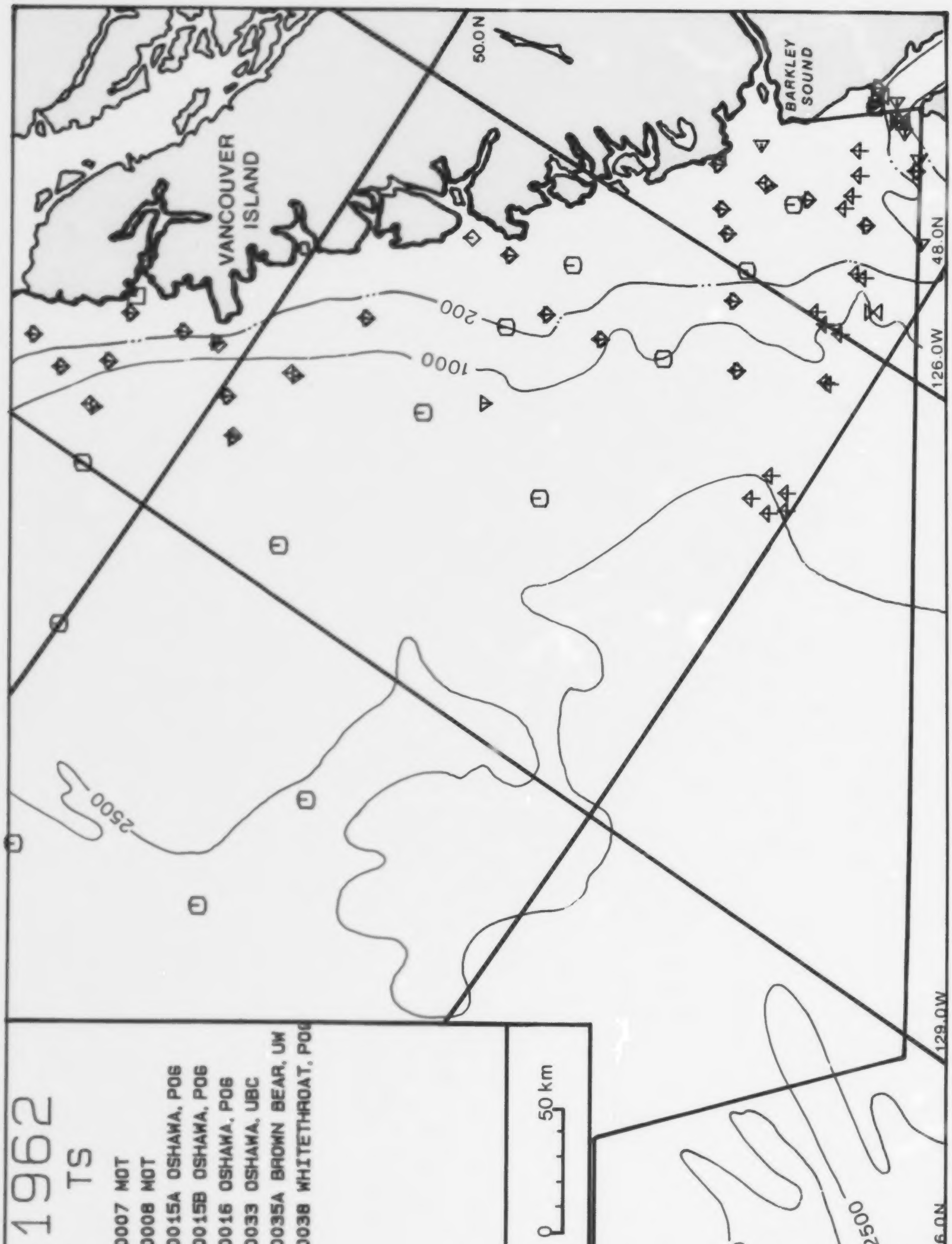

DEPTH ---- 100m
0
5
10km
RUPERT INLET
QUATSINO NARROWS
NEROUTSOS INLET
HOLBERG INLET
QUATSINO SOUND
1961
Ts
▲ 61-0034 WHITETHROAT, POG
50°30'
127°30'
128°

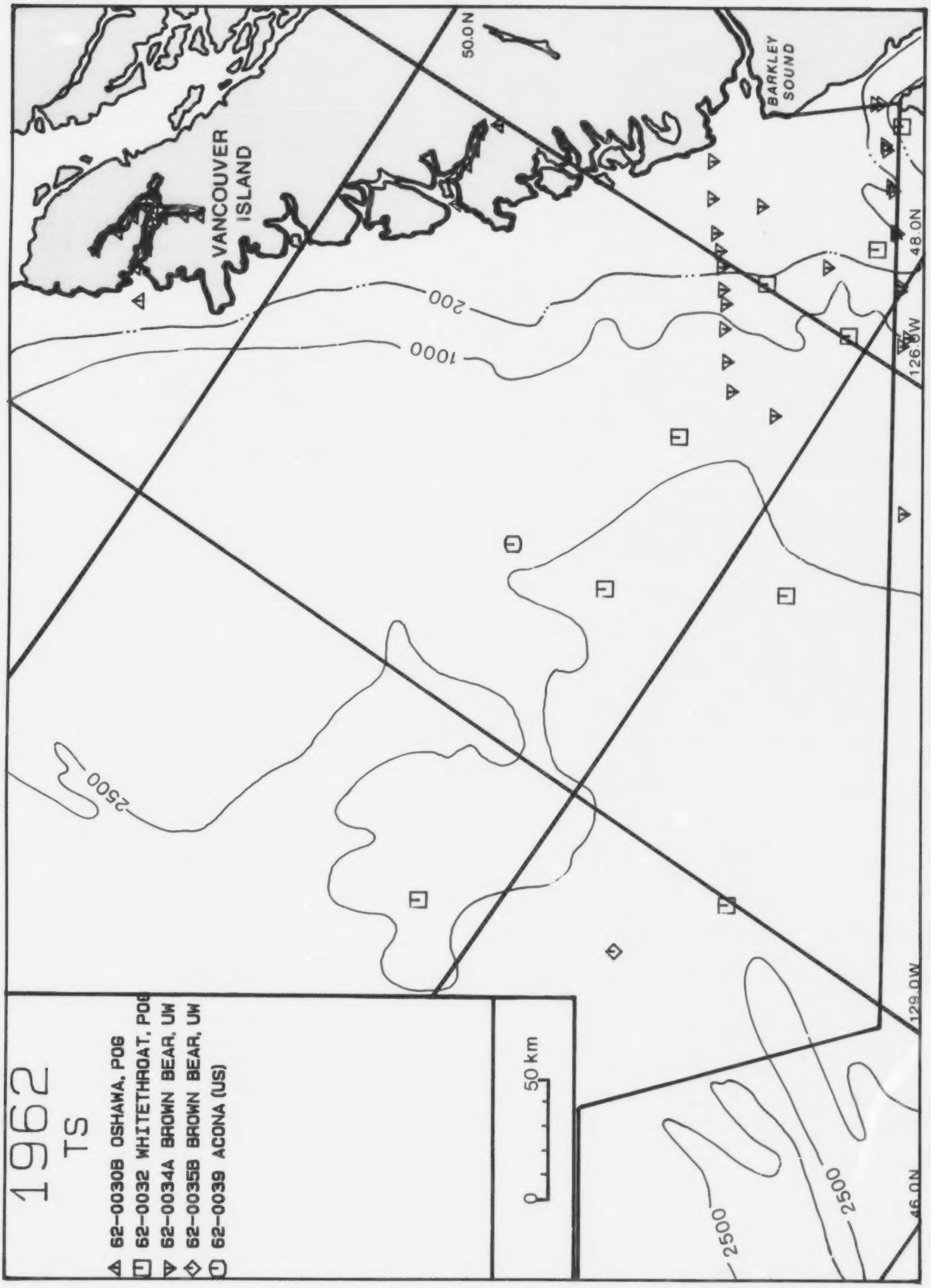

140.0
1000 m
2000 m
3000 m
0
100 km
1961
CM
⚠ 61-0016 OSHAWA, POG
61-0034 WHITETHROAT, POG
61-0042 OSHAWA, POG
WL
◇ 05-0005 CHS
✳ 60-0017 CHS
+ 61-0023 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

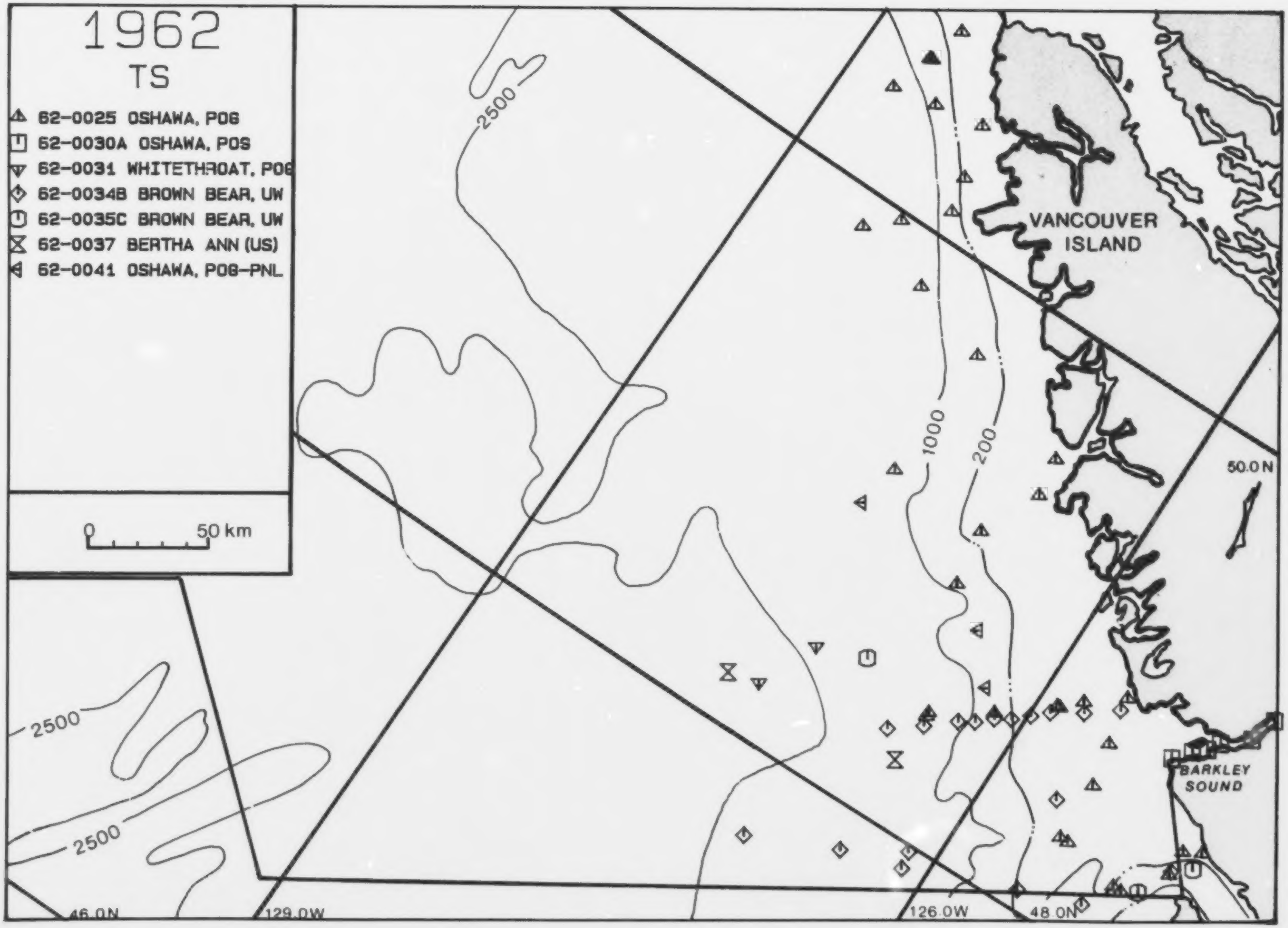

140.0
1000 m
2000 m
3000 m
0
100 km
1962
TS
△ 34-0002 MOT
□ 34-0007 MOT
▽ 35-0008 MOT
◇ 40-0004 MOT
62-0015A OSHAWA, POG
⧗ 62-0015B OSHAWA, POG
◁ 62-0016 OSHAWA, POG
62-0033 OSHAWA, UBC
✡ 62-0035A BROWN BEAR, UW
62-0038 WHITETHROAT, POG
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

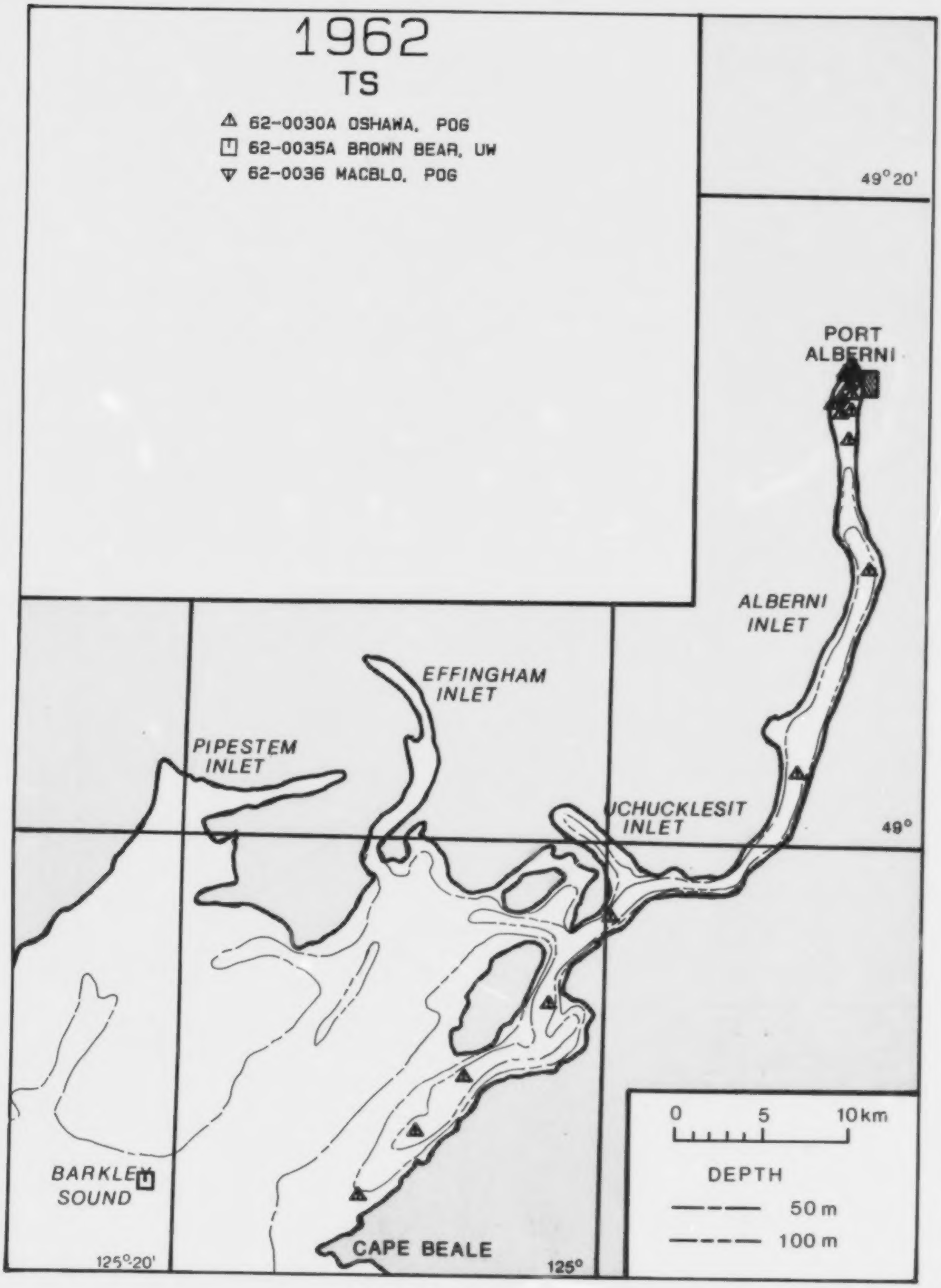

1962
TS
△ 62-0018 OSHAWA, POG
62-0030B OSHAWA, POG
▽ 62-0032 WHITETHROAT, POG
◇ 62-0034A BROWN BEAR, UW
62-0035B BROWN BEAR, UW
62-0036 MACBLO, POG
◁ 62-0039 ACONA (US)
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

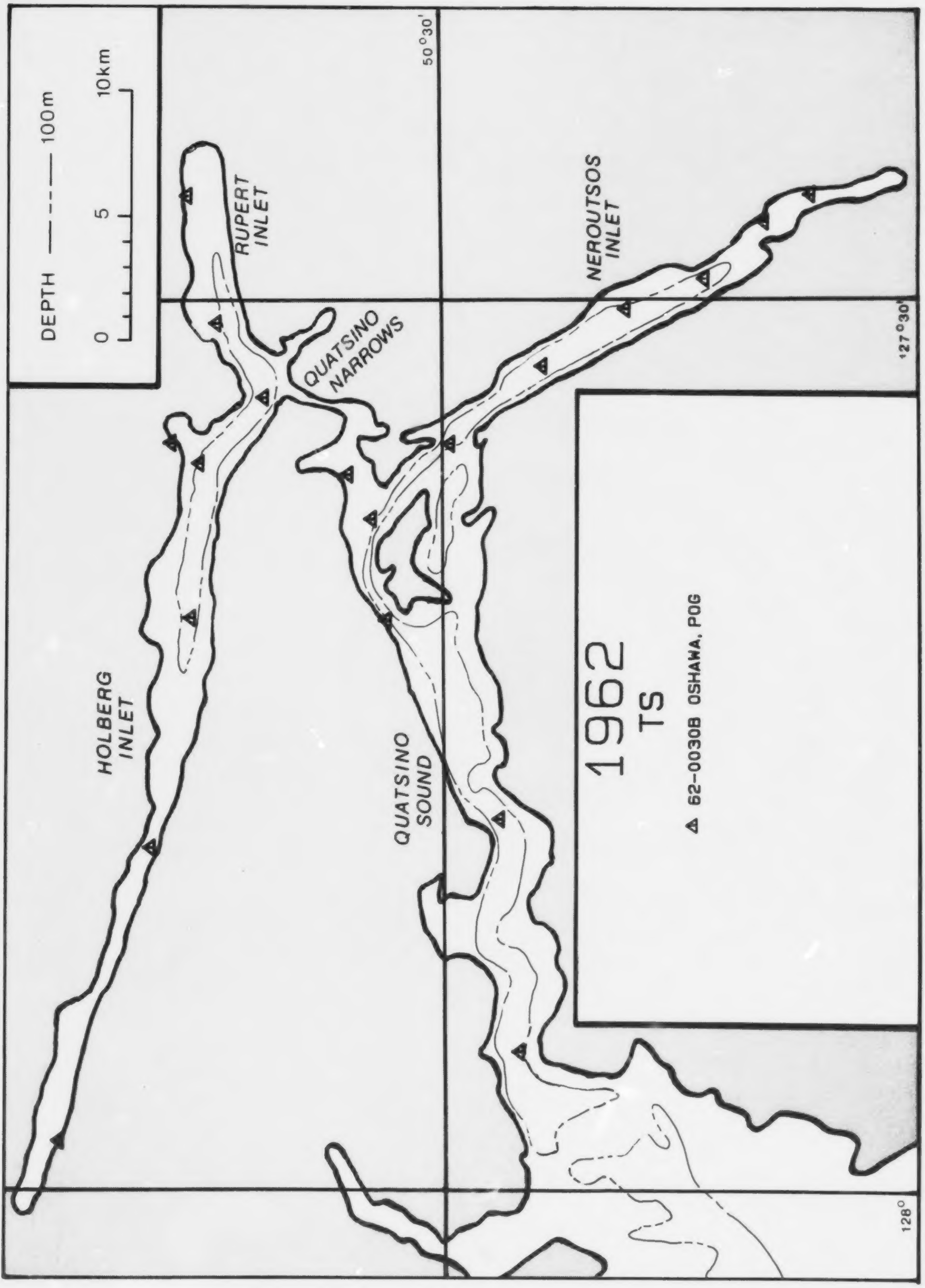

1962
TS
1000 m
2000 m
3000 m
0
100 km
62-0025 OSHAWA, POG
62-0030A OSHAWA, POG
62-0031 WHITETHROAT, POG
62-0034B BROWN BEAR, UW
62-0035C BROWN BEAR, UW
62-0037 BERTHA ANN (US)
62-0041 OSHAWA, POG-PNL
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

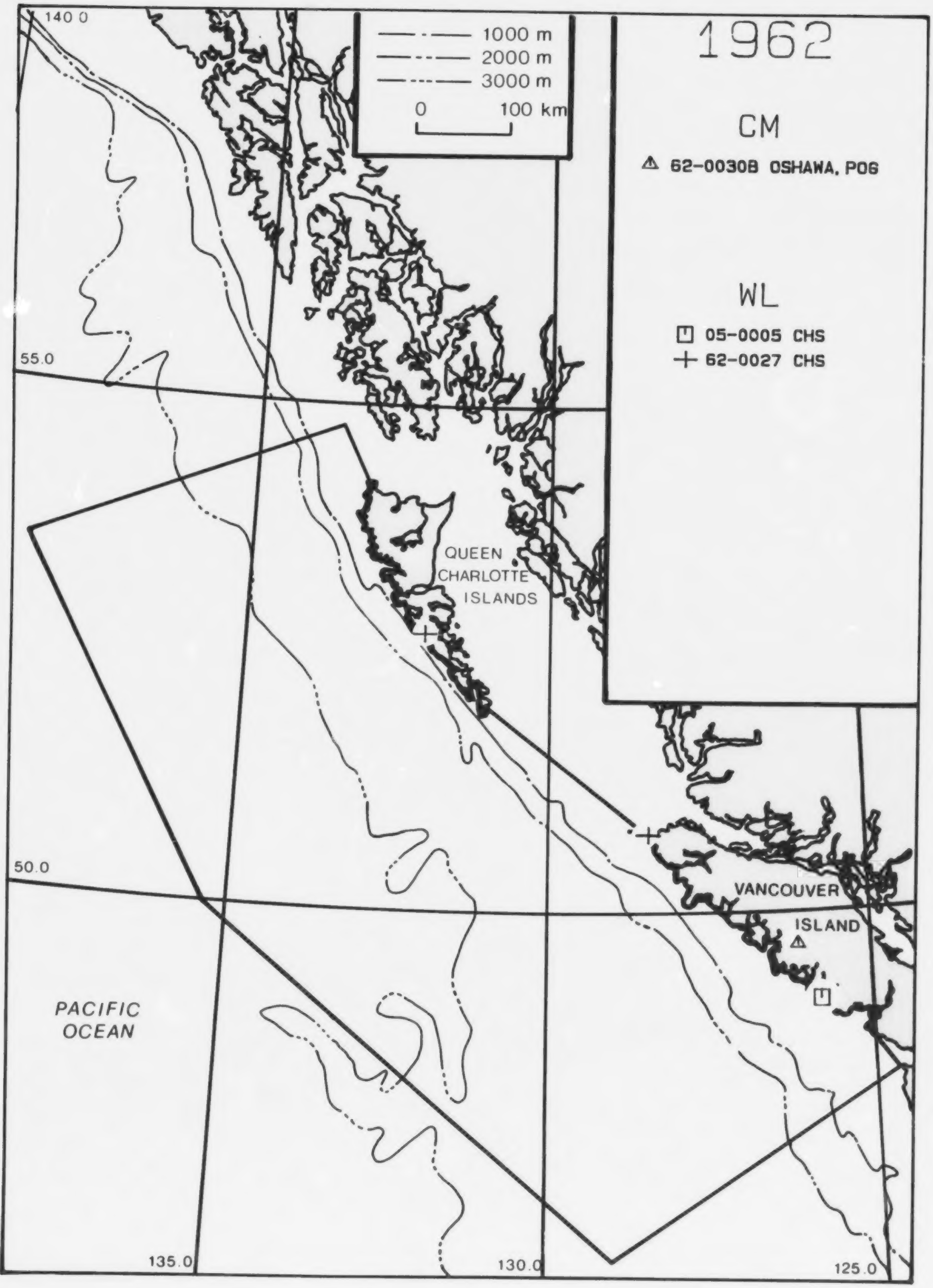

1962
TS
34–0007 MOT
35–0008 MOT
62–0015A OSHAWA, POG
62–0015B OSHAWA, POG
62–0016 OSHAWA, POG
62–0033 OSHAWA, UBC
62–0035A BROWN BEAR, UW
62–0038 WHITETHROAT, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

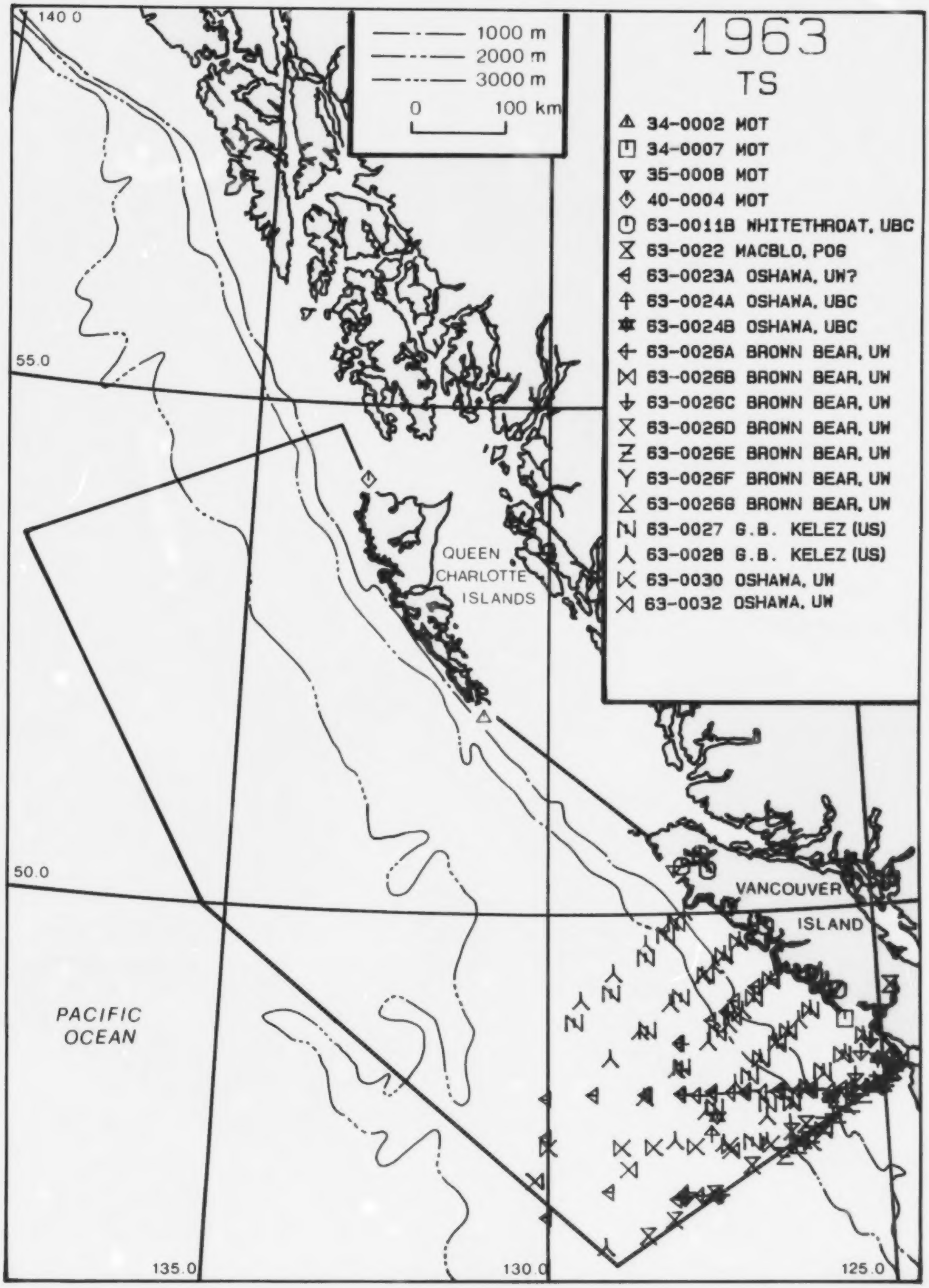

1962
TS
62-0030B OSHAWA, POG
62-0032 WHITETHROAT, POG
62-0034A BROWN BEAR, UW
62-0035B BROWN BEAR, UW
62-0039 ACONA (US)
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

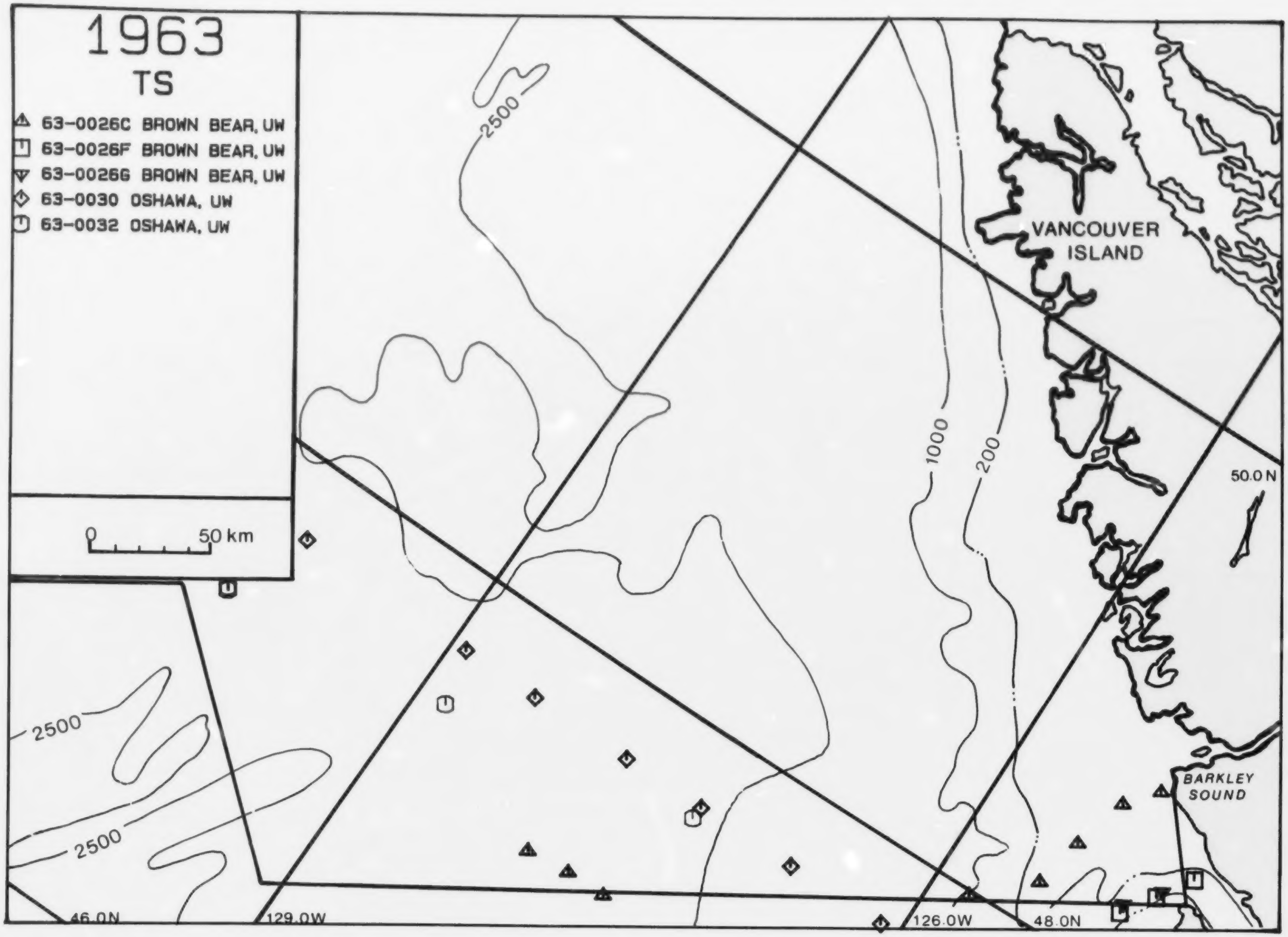

1962
TS
62-0025 OSHAWA, POG
62-0030A OSHAWA, POS
62-0031 WHITETHROAT, POG
62-0034B BROWN BEAR, UW
62-0035C BROWN BEAR, UW
62-0037 BERTHA ANN (US)
62-0041 OSHAWA, POG-PNL
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
1000
200
2500
2500
50.0 N
48.0 N
46.0 N
126.0 W
129.0 W

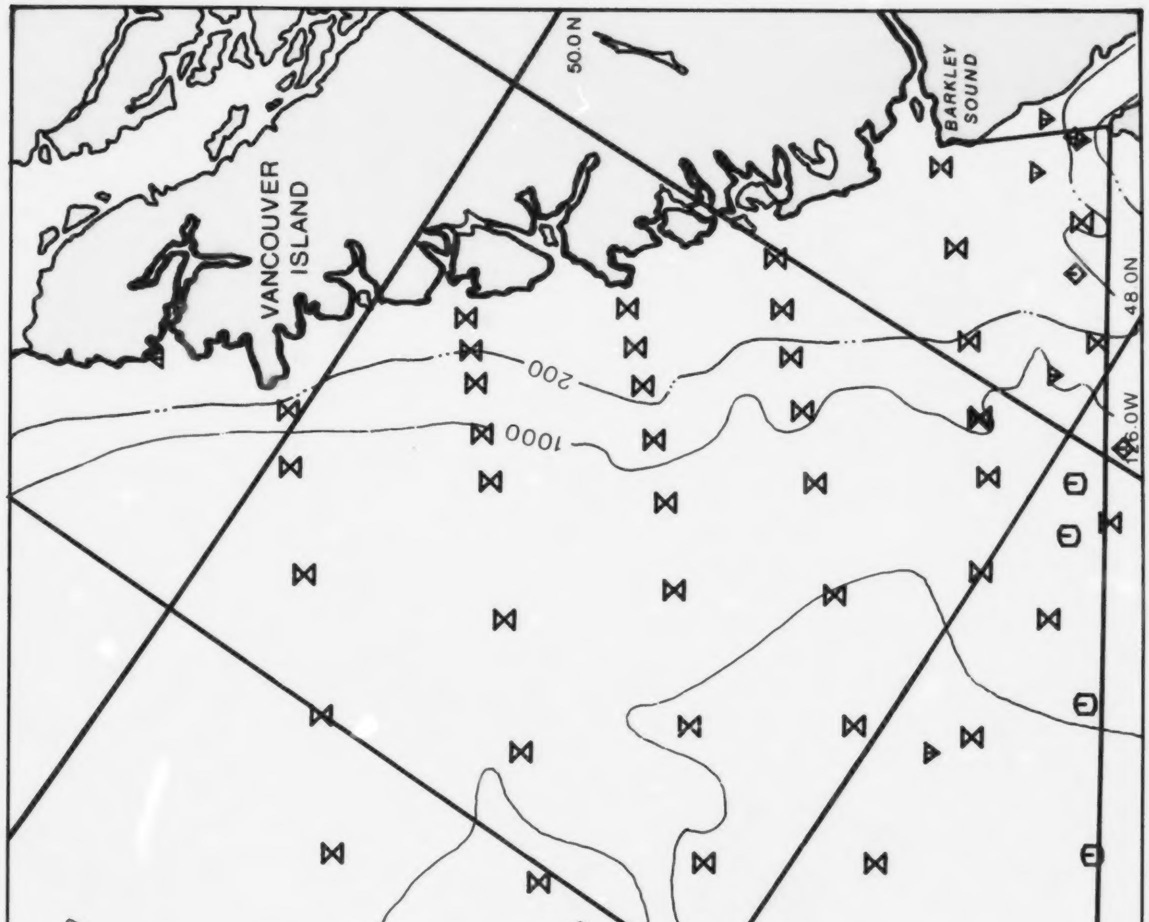

1962
TS
△ 62-0030A OSHAWA, POG
◻ 62-0035A BROWN BEAR, UW
▽ 62-0036 MACBLO, POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

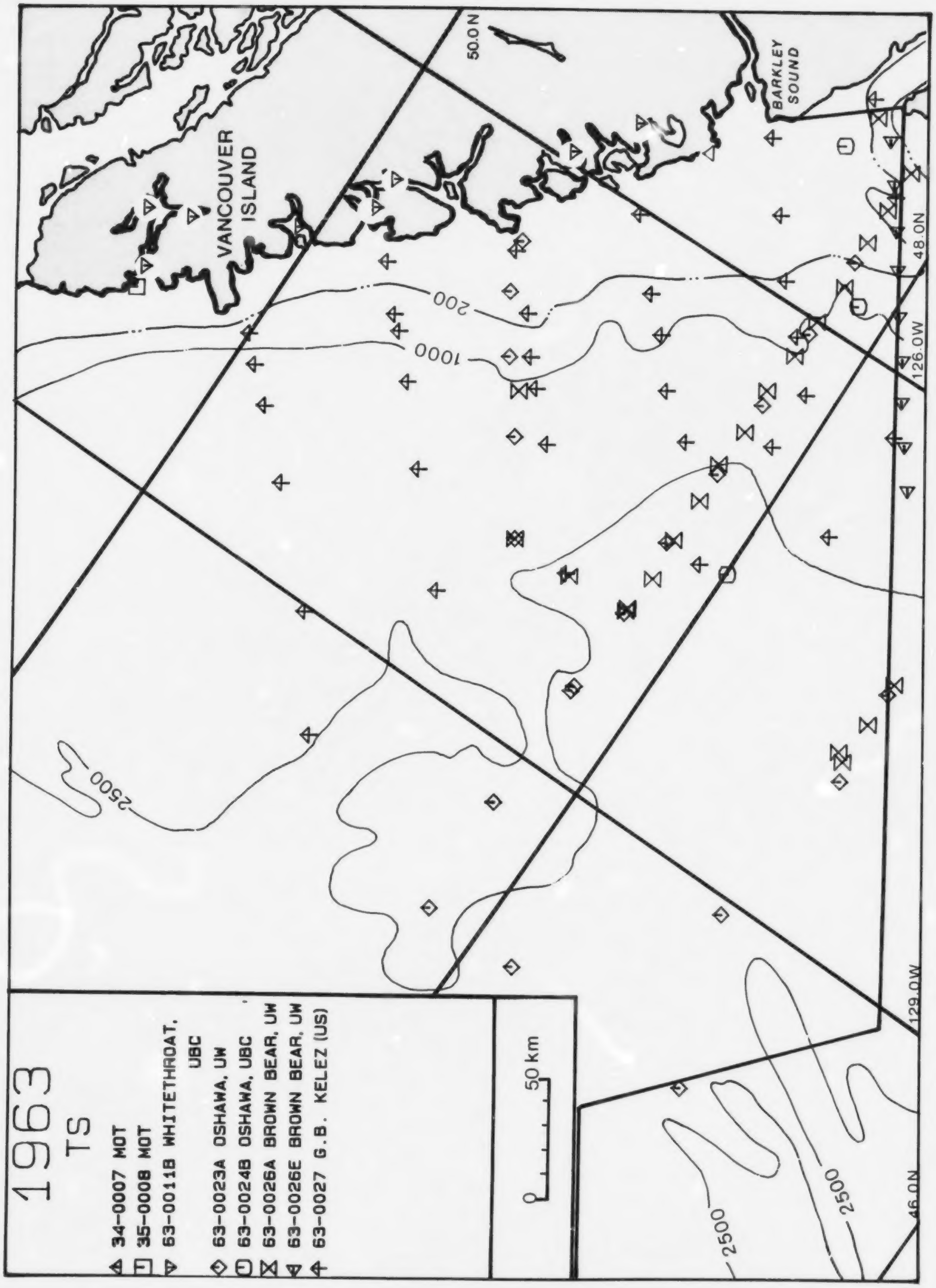

DEPTH ——— 100m
0 5 10km
50°30'
127°30'
128°
RUPERT INLET
QUATSINO NARROWS
NEROUTSOS INLET
HOLBERG INLET
QUATSINO SOUND
1962
TS
△ 62-0030B OSHAWA, POG

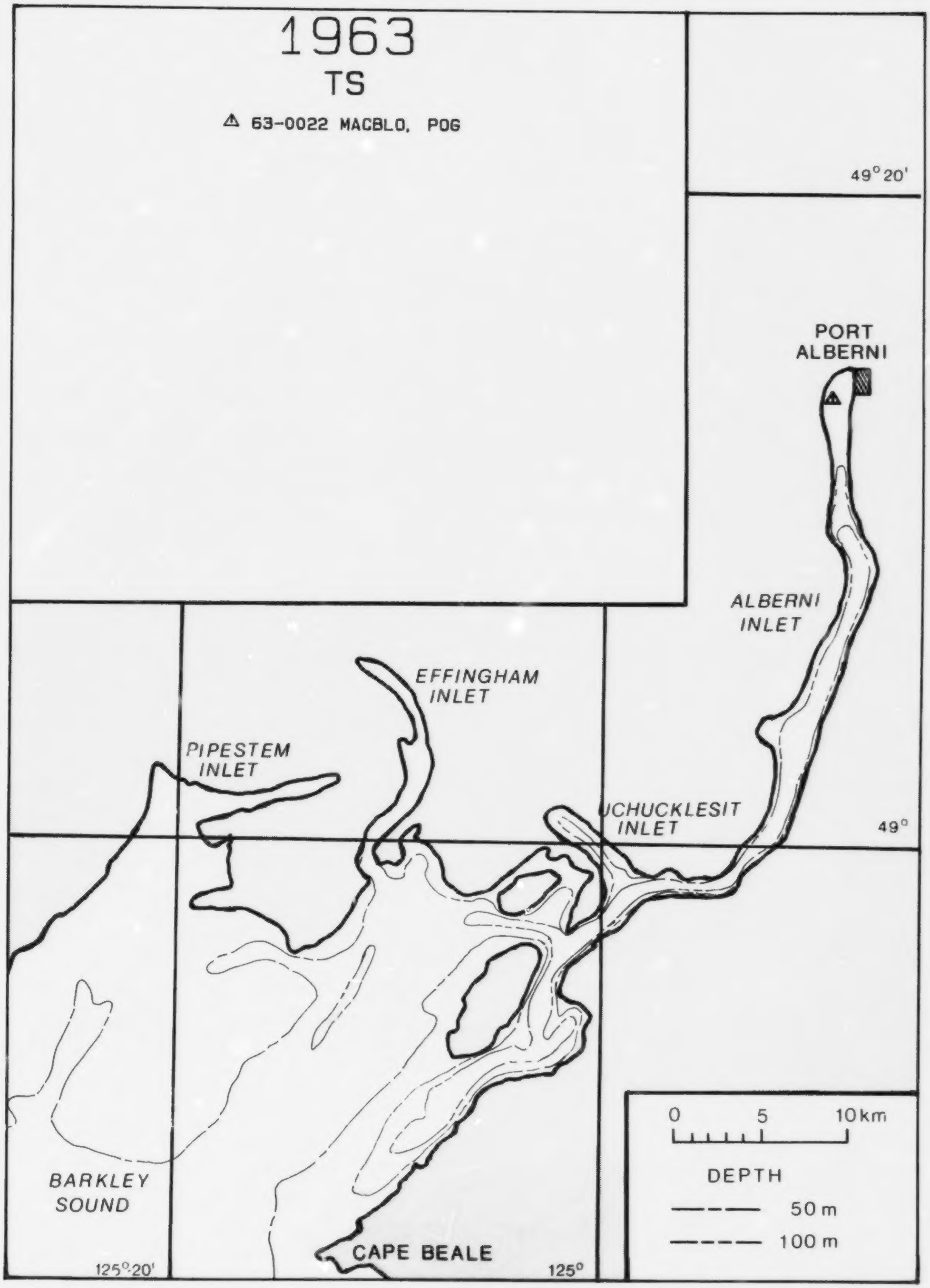

1962
1000 m
2000 m
3000 m
0
100 km
CM
⚠ 62-0030B OSHAWA, P06
WL
05-0005 CHS
+ 62-0027 CHS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

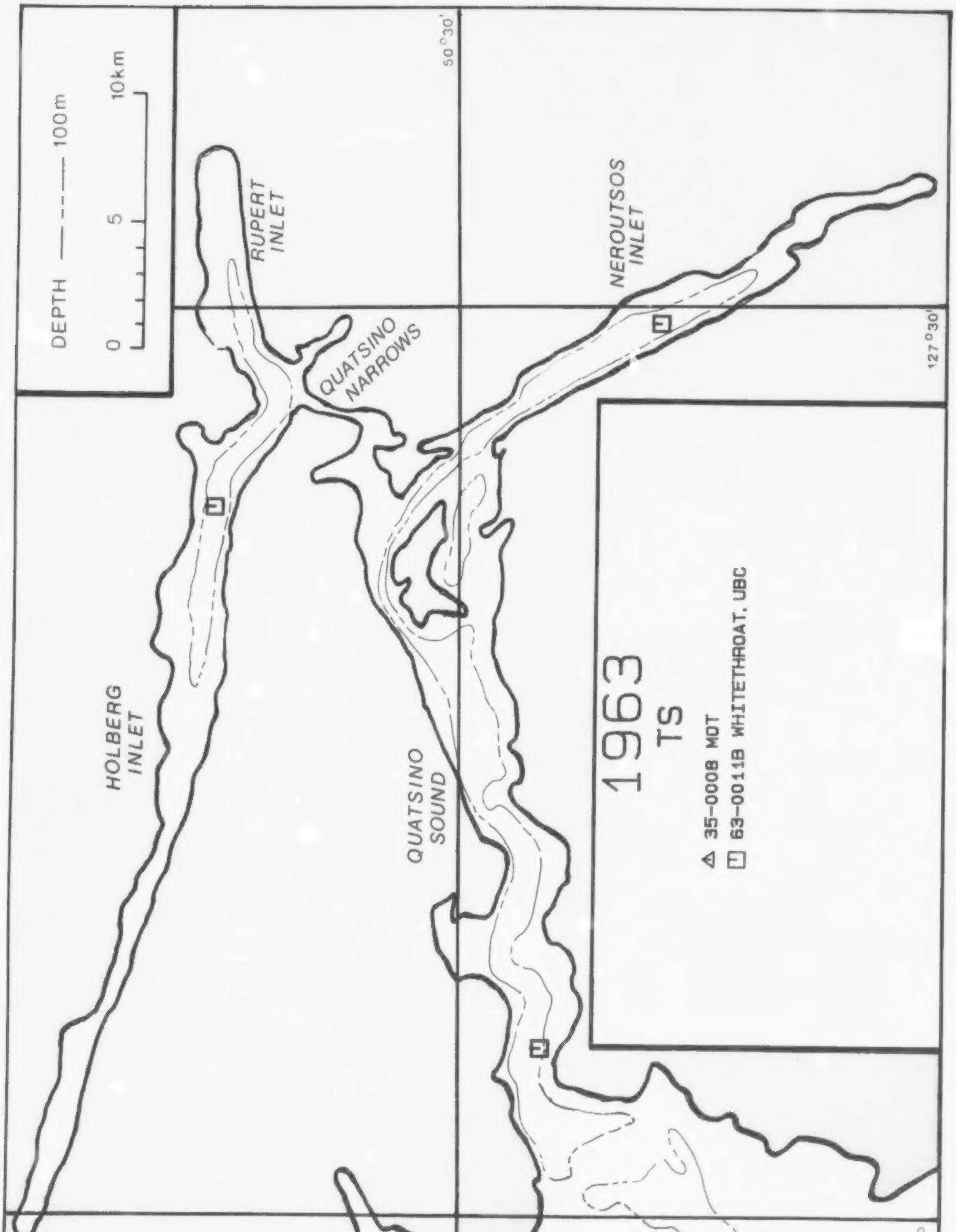

1000 m
2000 m
3000 m
0
100 km
1963
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
63-0011B WHITETHROAT, UBC
63-0022 MACBLO, POG
63-0023A OSHAWA, UW?
63-0024A OSHAWA, UBC
63-0024B OSHAWA, UBC
63-0026A BROWN BEAR, UW
63-0026B BROWN BEAR, UW
63-0026C BROWN BEAR, UW
63-0026D BROWN BEAR, UW
63-0026E BROWN BEAR, UW
63-0026F BROWN BEAR, UW
63-0026G BROWN BEAR, UW
63-0027 G.B. KELEZ (US)
63-0028 G.B. KELEZ (US)
63-0030 OSHAWA, UW
63-0032 OSHAWA, UW
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

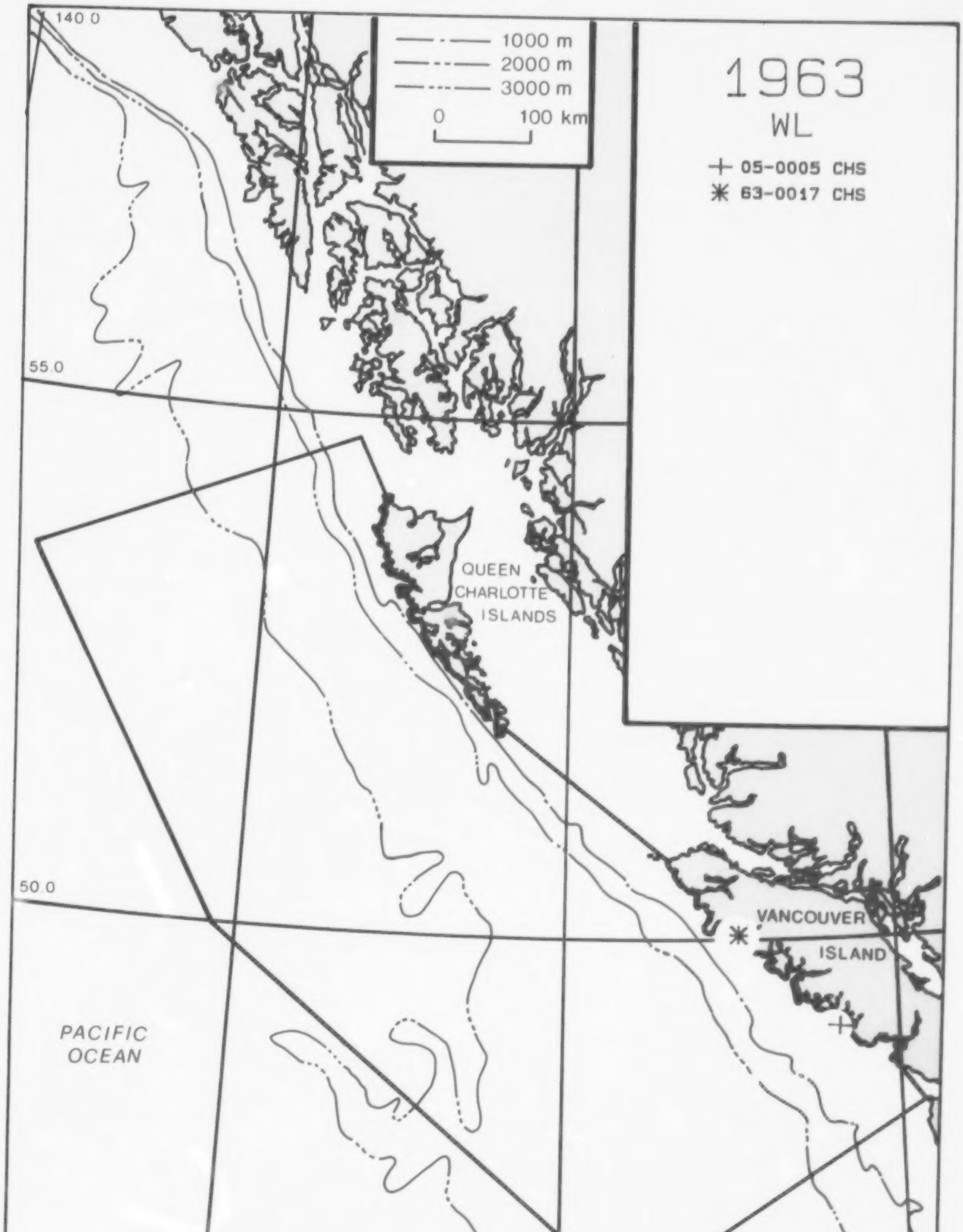

1963
TS
63-0026C BROWN BEAR, UW
63-0026F BROWN BEAR, UW
63-0026G BROWN BEAR, UW
63-0030 OSHAWA, UW
63-0032 OSHAWA, UW
0
50 km
2500
2500
2500
1000
200
VANCOUVER ISLAND
50.0 N
BARKLEY SOUND
46.0N
129.0W
126.0W
48.0N

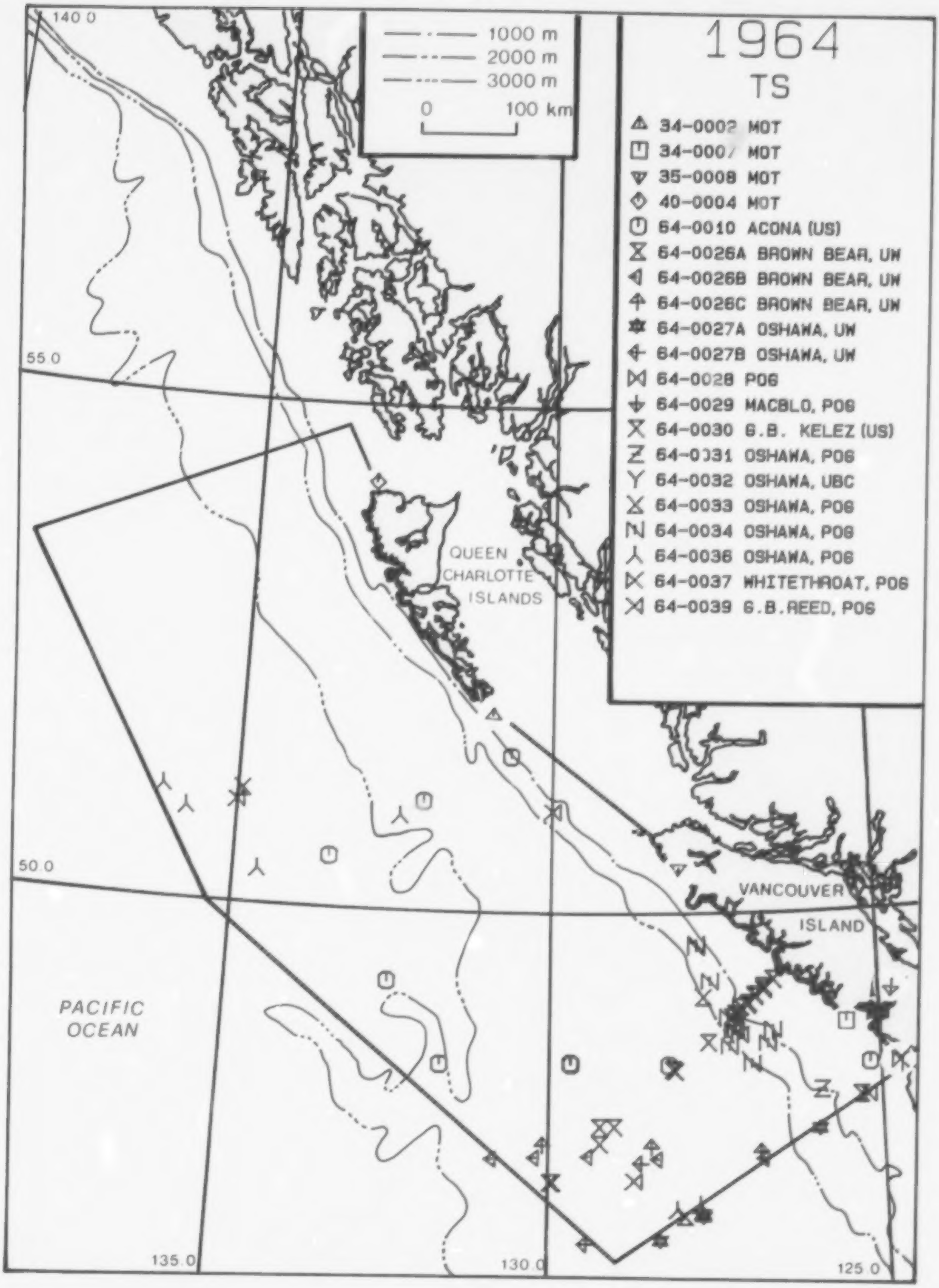

1963
TS
△ 35-0008 MOT
▽ 63-0024A OSHAWA, UBC
◇ 63-0026B BROWN BEAR, UW
63-0026D BROWN BEAR, UW
⋈ 63-0028 G.B.KELEZ (US)
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

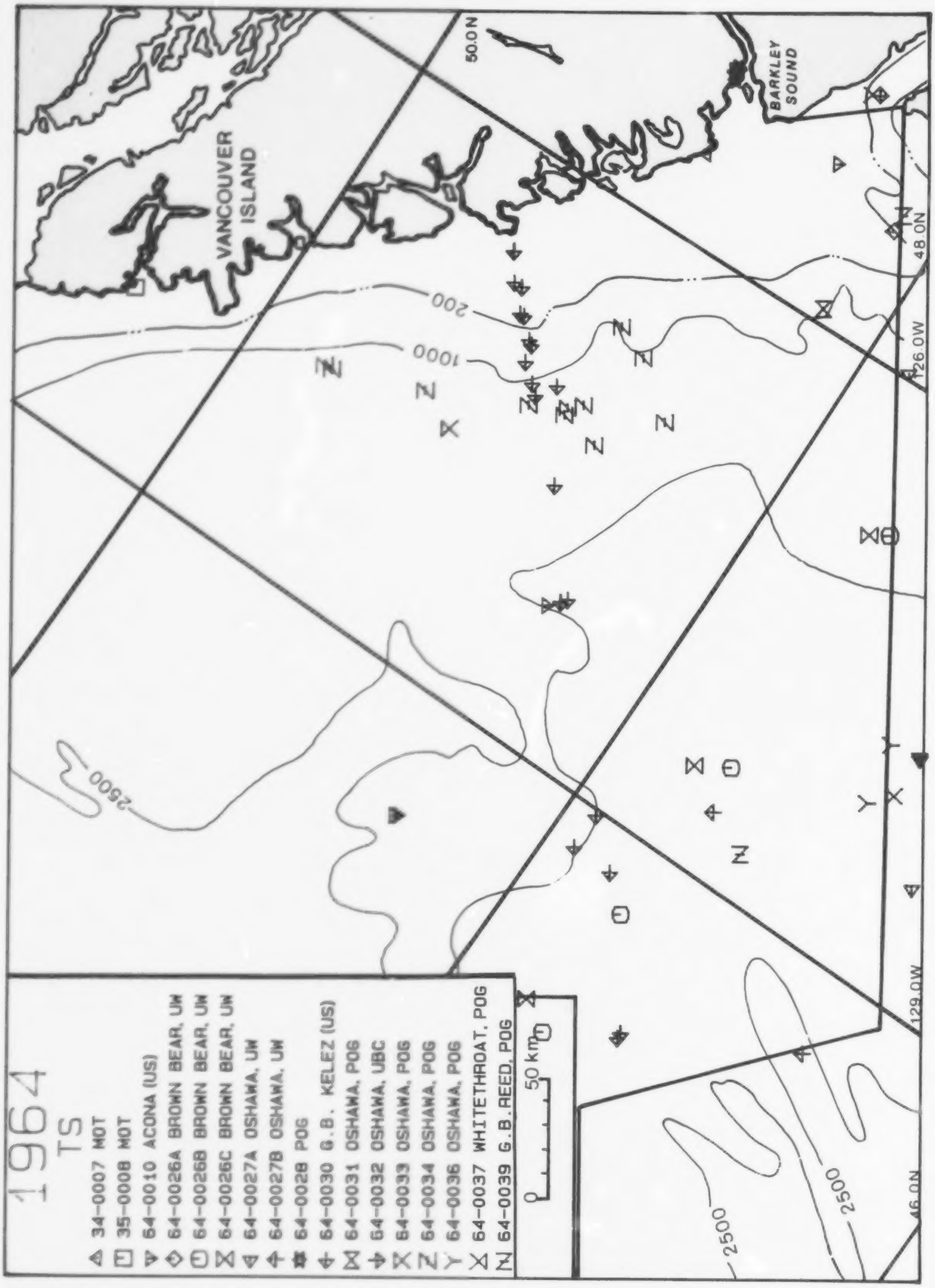

1963
TS
34-0007 MOT
35-0008 MOT
63-0011B WHITETHROAT, UBC
63-0023A OSHAWA, UW
63-0024B OSHAWA, UBC
63-0026A BROWN BEAR, UW
63-0026E BROWN BEAR, UW
63-0027 G.B. KELEZ (US)
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

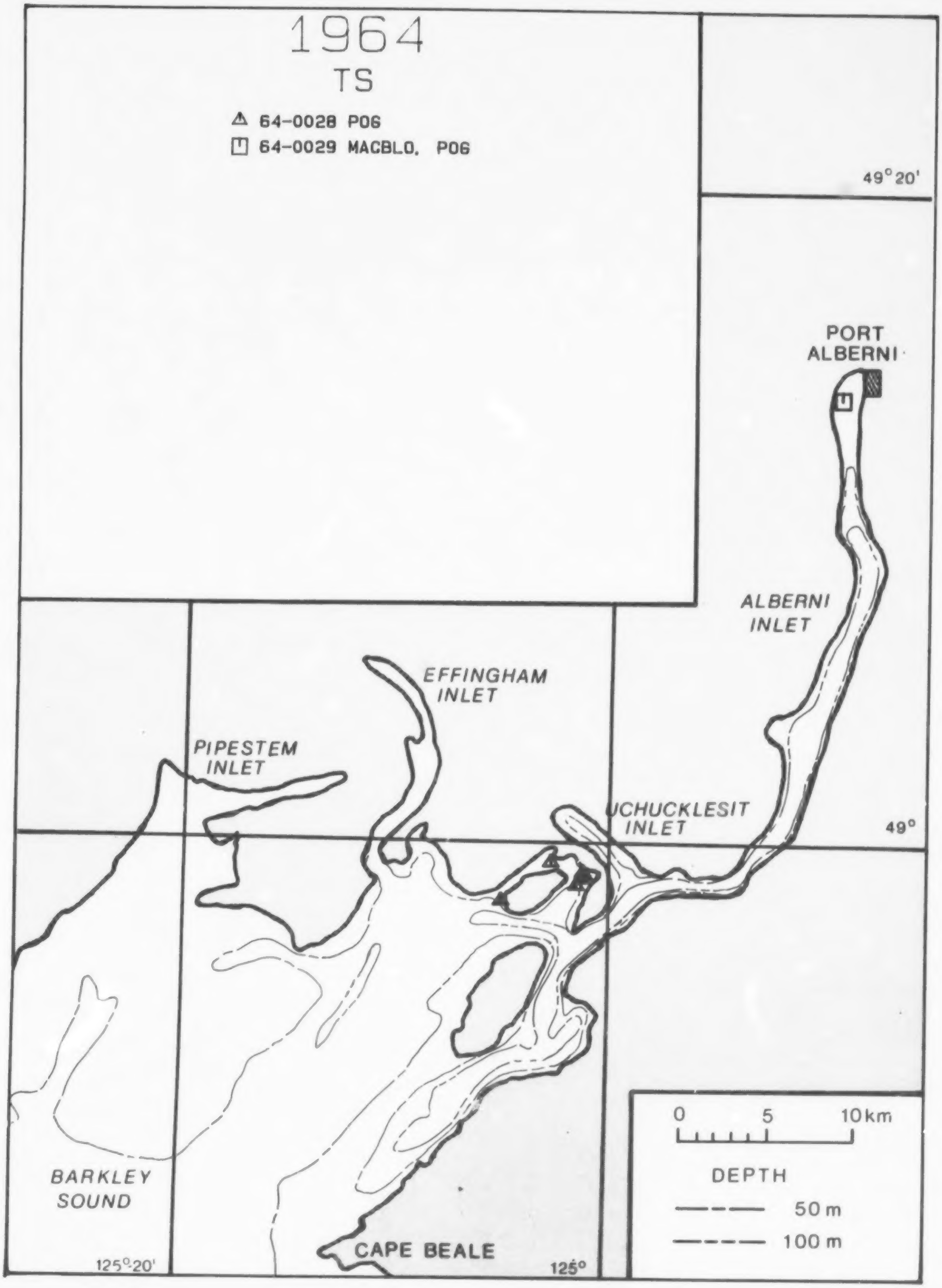

1963
TS
⚠ 63-0022 MACBLO, POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

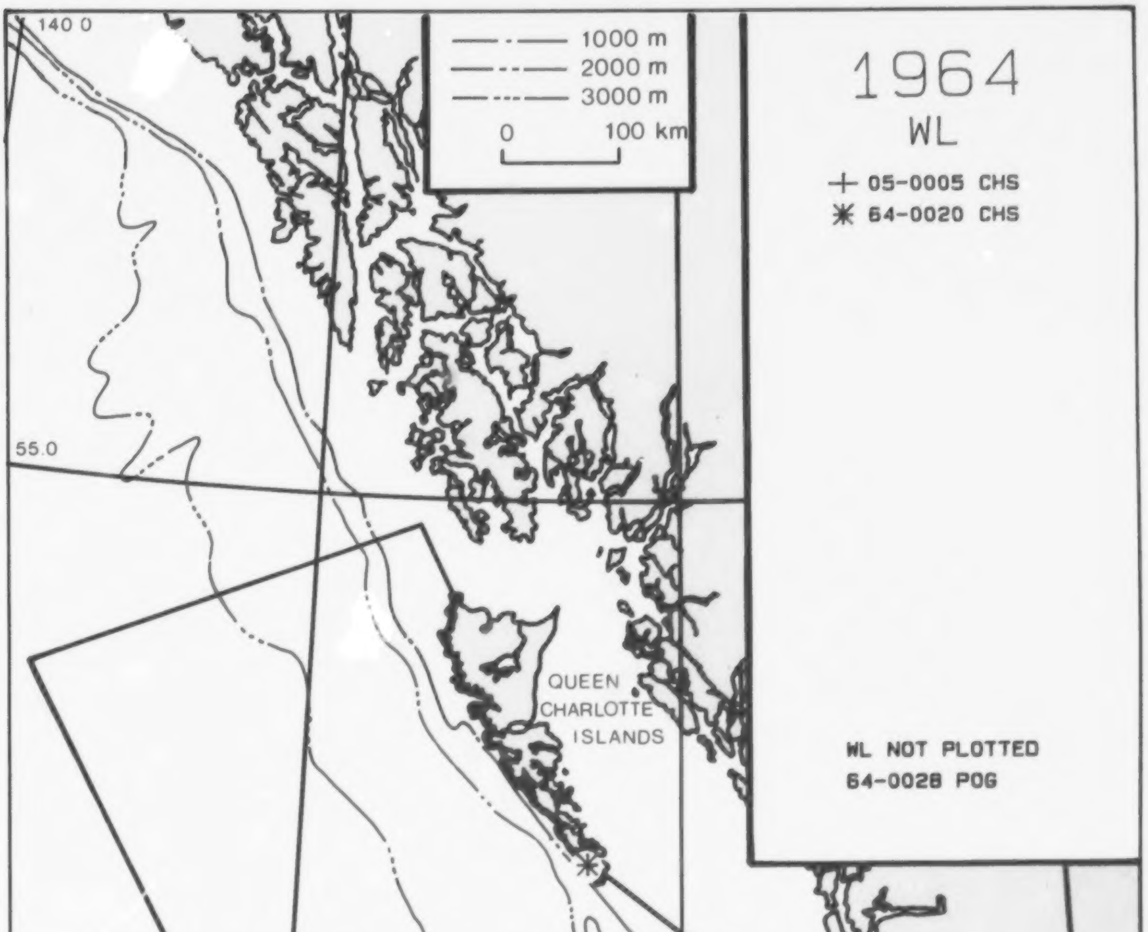

DEPTH ——— - - - 100m
0
5
10km
RUPERT INLET
QUATSINO NARROWS
NEROUTSOS INLET
HOLBERG INLET
QUATSINO SOUND
50°30'
127°30'
128°
1963
TS
△ 35-0008 MOT
☐ 63-0011B WHITETHROAT, UBC


140.0
1000 m
2000 m
3000 m
0
100 km
1963
WL
+ 05-0005 CHS
✳ 63-0017 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

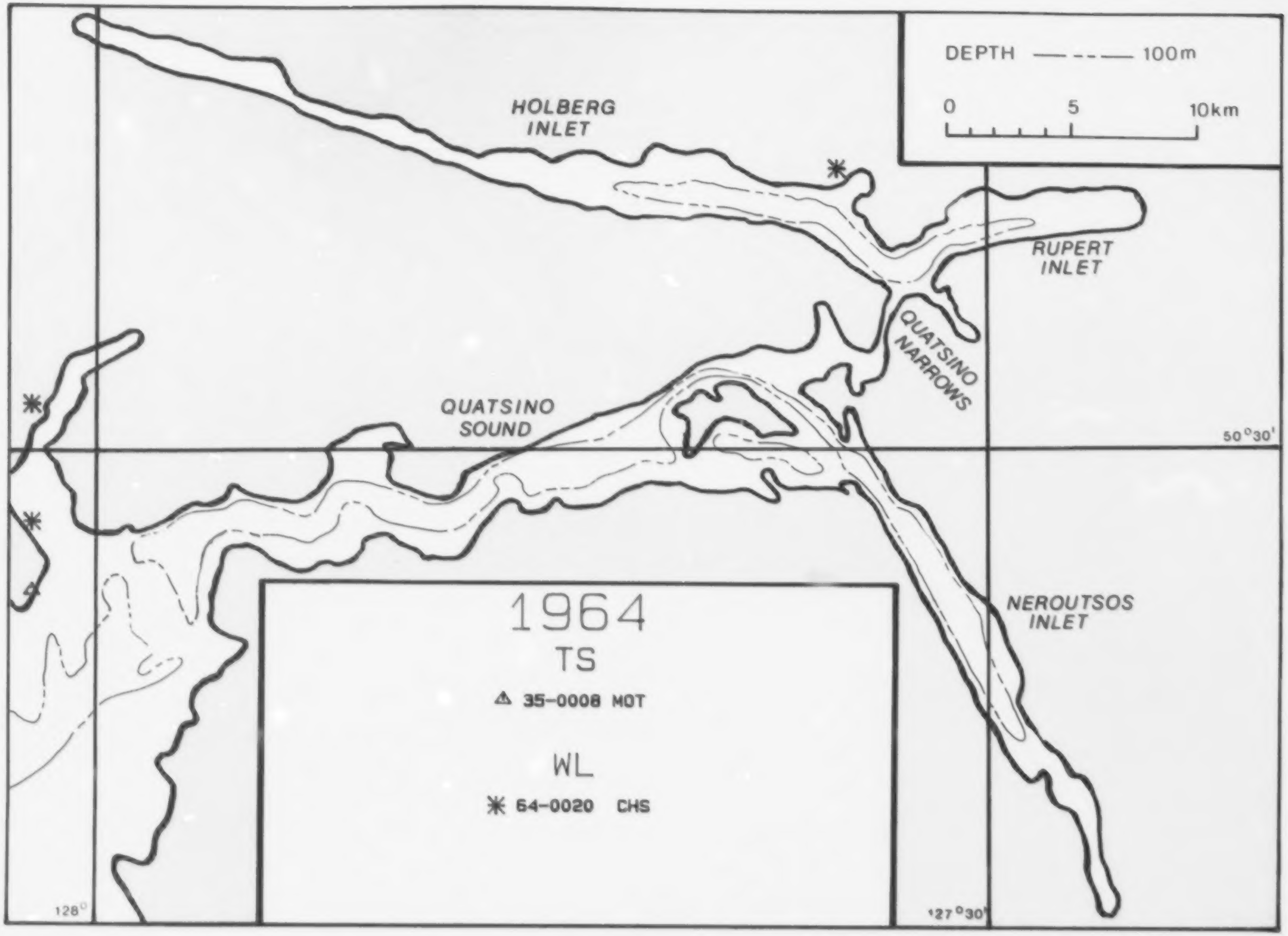

1964
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
64-0010 ACONA (US)
64-0026A BROWN BEAR, UW
64-0026B BROWN BEAR, UW
64-0026C BROWN BEAR, UW
64-0027A OSHAWA, UW
64-0027B OSHAWA, UW
64-0028 POG
64-0029 MACBLO, POG
64-0030 G.B. KELEZ (US)
64-0031 OSHAWA, POG
64-0032 OSHAWA, UBC
64-0033 OSHAWA, POG
64-0034 OSHAWA, POG
64-0036 OSHAWA, POG
64-0037 WHITETHROAT, POG
64-0039 G.B.REED, POG
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

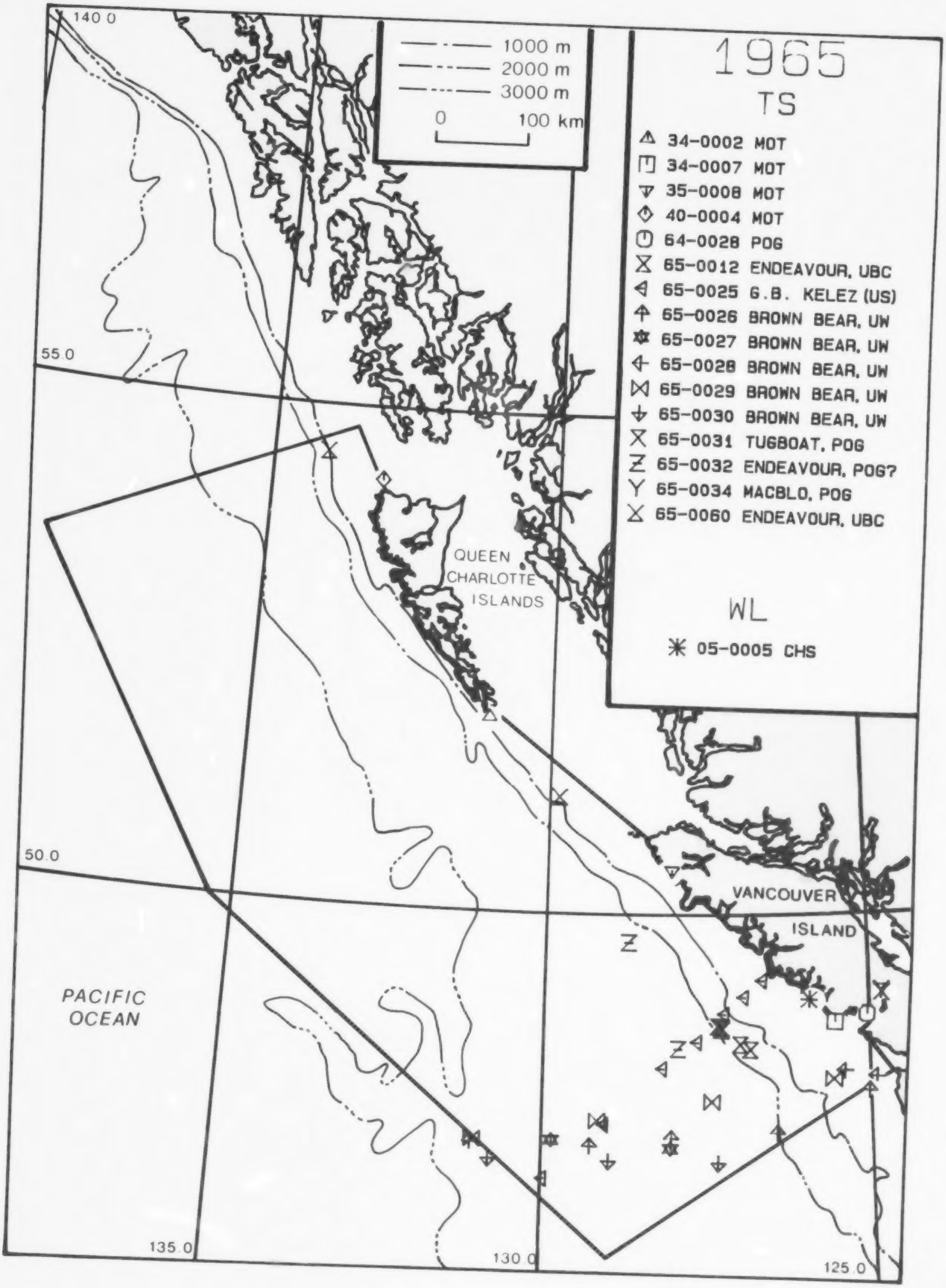

1964
TS
△ 34-0007 MOT
⊡ 35-0008 MOT
▽ 64-0010 ACONA (US)
◇ 64-0026A BROWN BEAR, UW
⊙ 64-0026B BROWN BEAR, UW
⧖ 64-0026C BROWN BEAR, UW
▽ 64-0027A OSHAWA, UW
✦ 64-0027B OSHAWA, UW
✱ 64-0028 POG
✦ 64-0030 G.B. KELEZ (US)
⧖ 64-0031 OSHAWA, POG
✦ 64-0032 OSHAWA, UBC
X 64-0033 OSHAWA, POG
Z 64-0034 OSHAWA, POG
Y 64-0036 OSHAWA, POG
X 64-0037 WHITETHROAT, POG
N 64-0039 G.B.REED, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

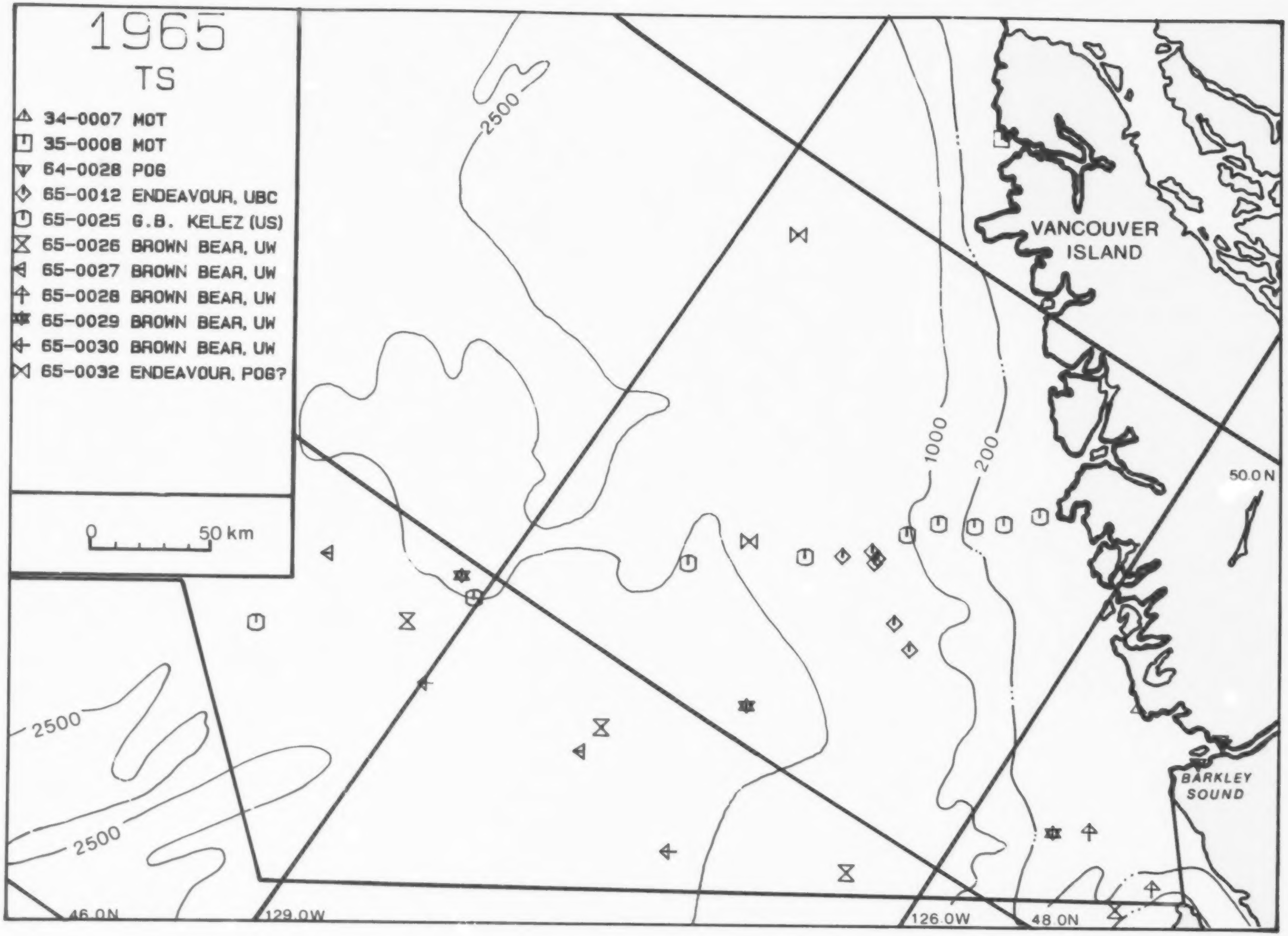

1964
TS
⚠ 64-0028 POG
[!] 64-0029 MACBLO. POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
0
5
10 km
DEPTH
50 m
100 m
BARKLEY SOUND
CAPE BEALE
125° 20'
125°

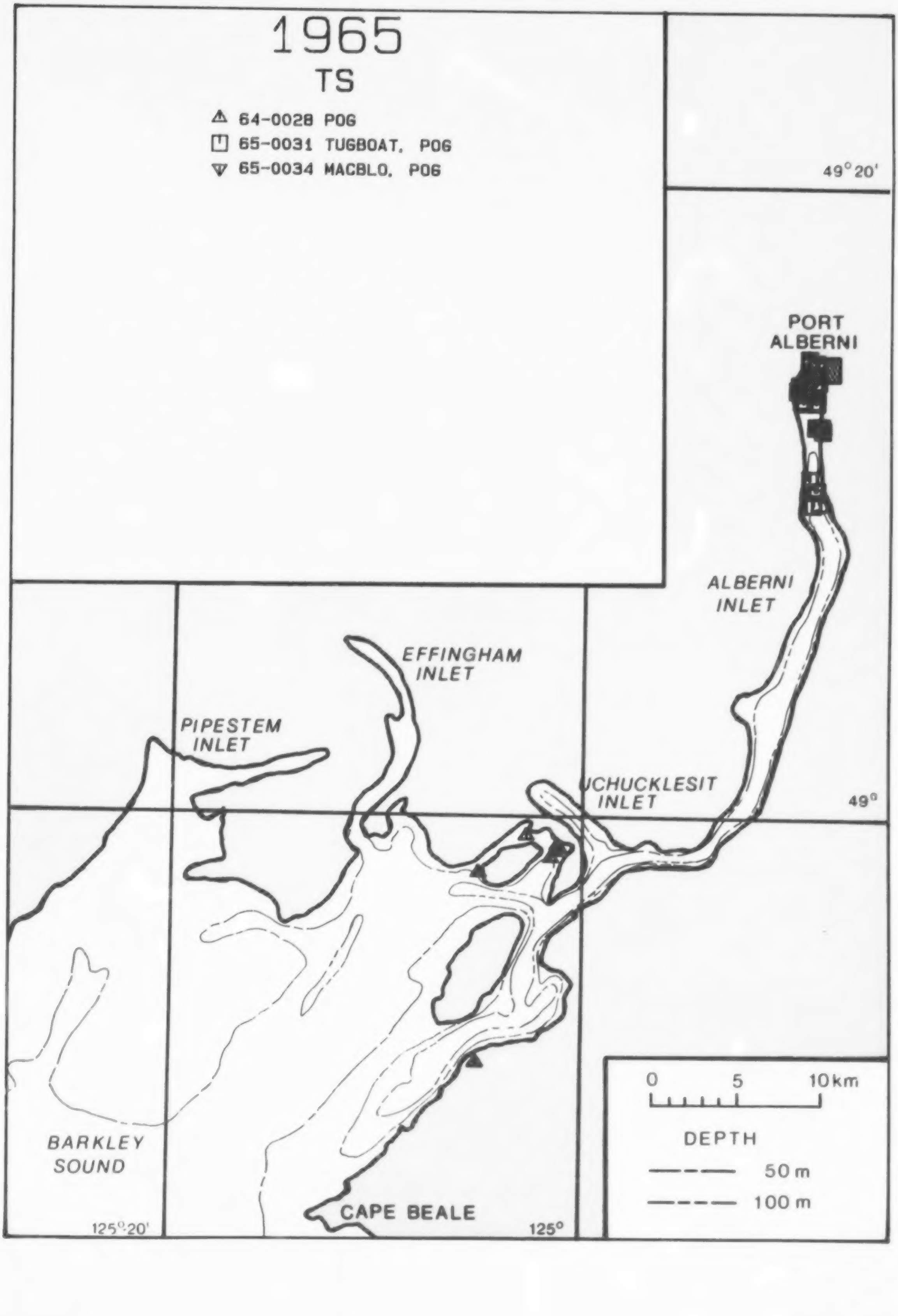


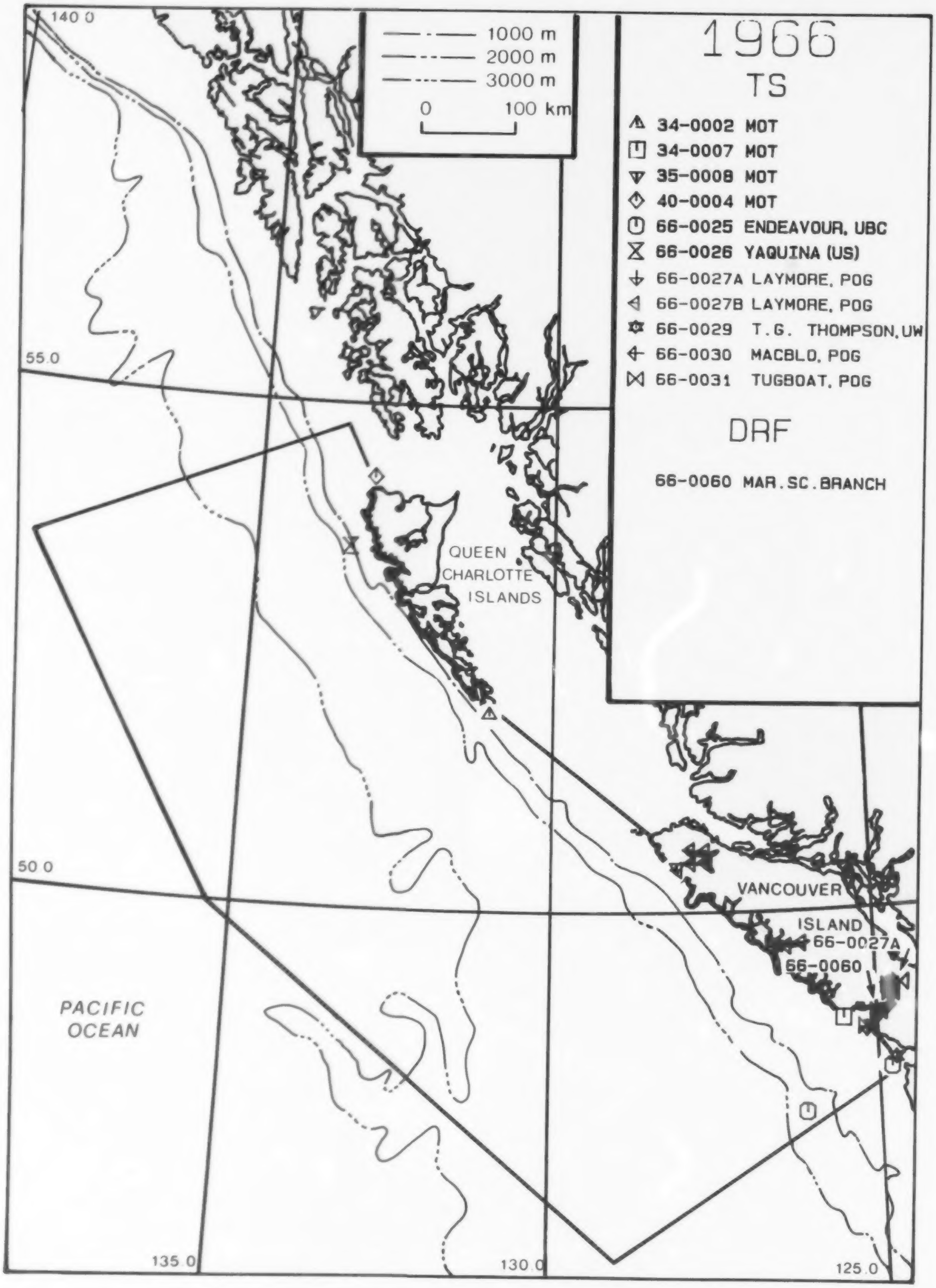
140.0
1000 m
2000 m
3000 m
0
100 km
1964
WL
+ 05-0005 CHS
✱ 64-0020 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
WL NOT PLOTTED
64-0028 POG
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

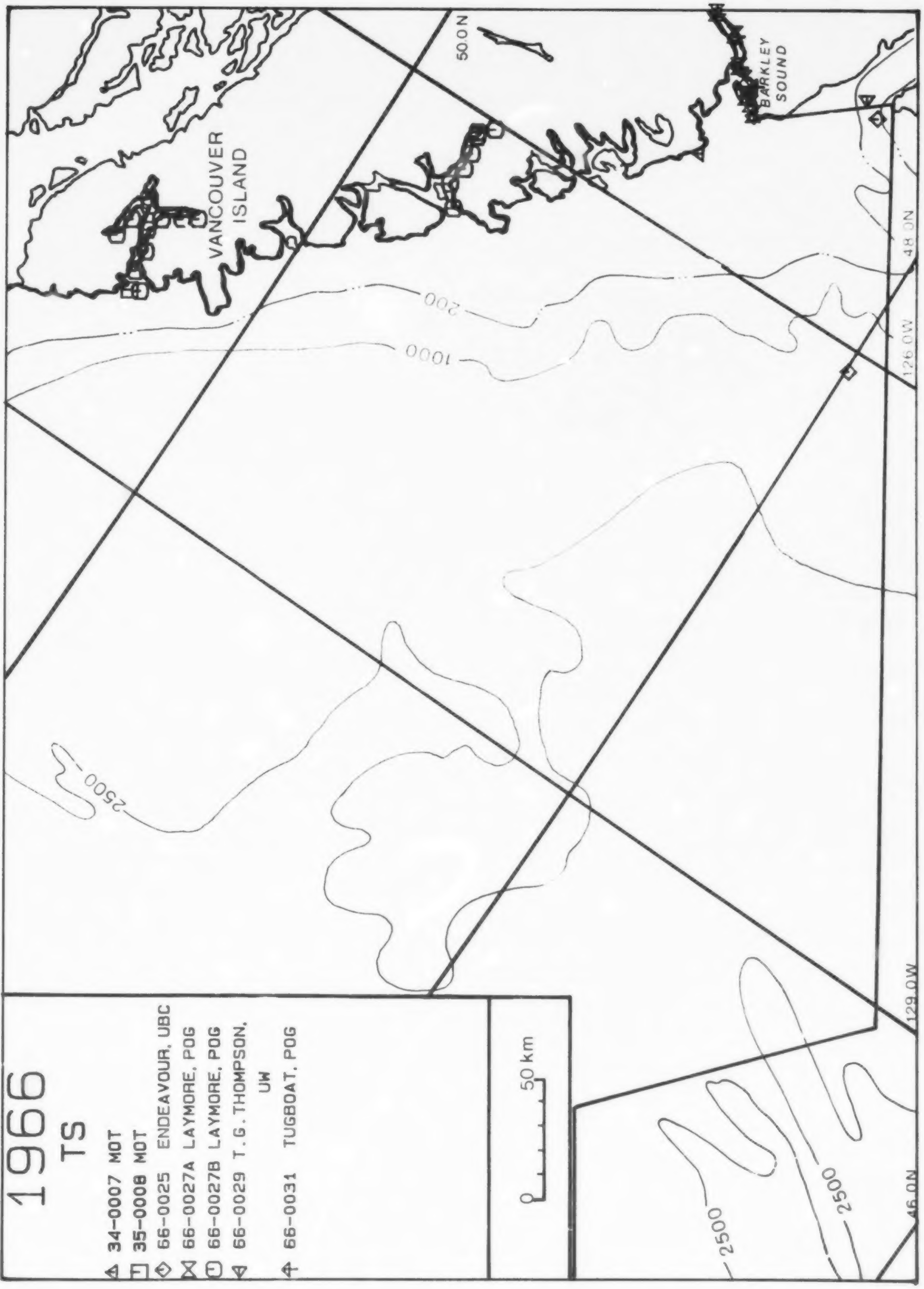

DEPTH ——- - -—— 100m
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
128°
127°30'
1964
TS
⚠ 35-0008 MOT
WL
✳ 64-0020 CHS

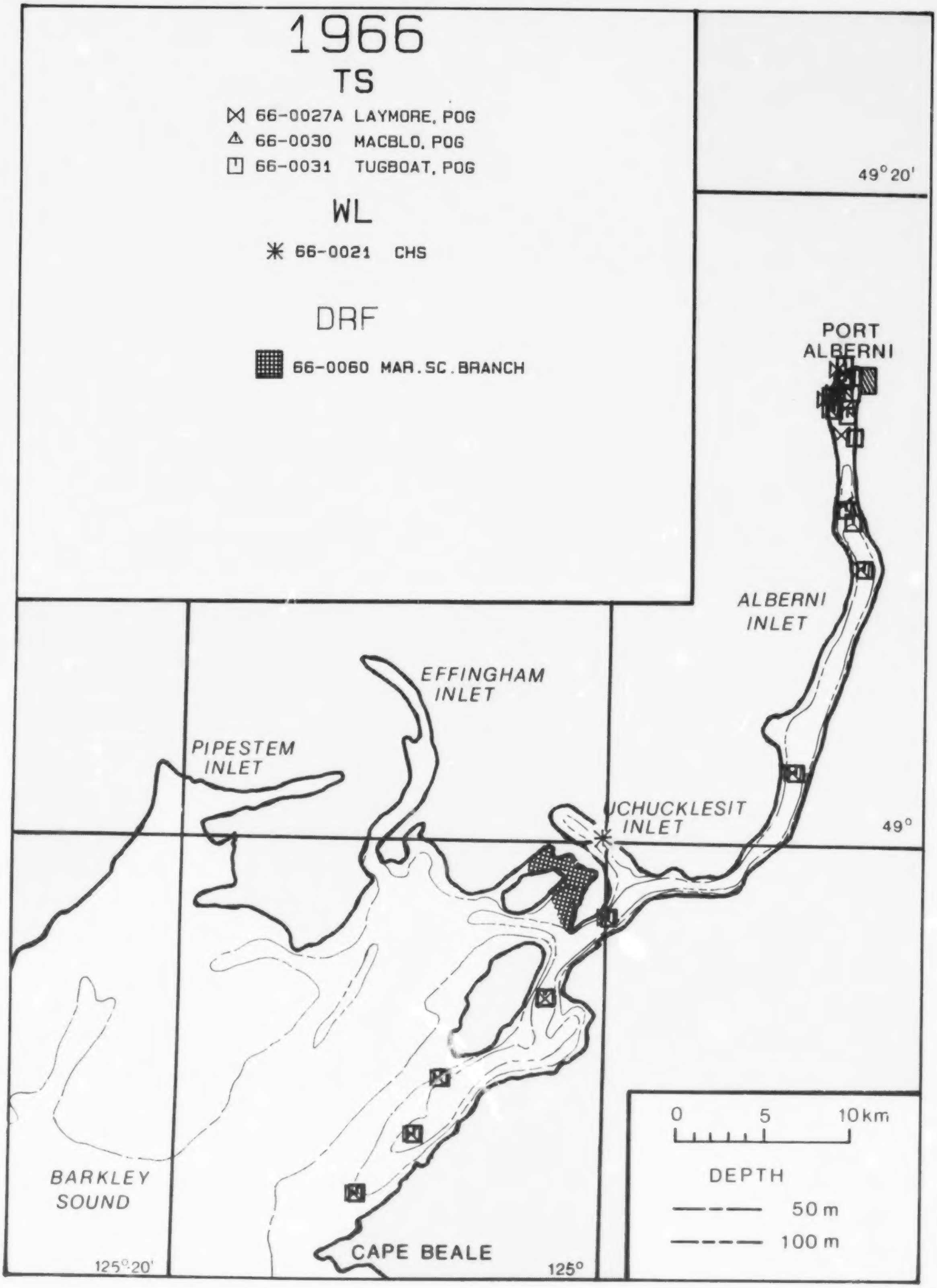

1965
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
64-0028 POG
65-0012 ENDEAVOUR, UBC
65-0025 G.B. KELEZ (US)
65-0026 BROWN BEAR, UW
65-0027 BROWN BEAR, UW
65-0028 BROWN BEAR, UW
65-0029 BROWN BEAR, UW
65-0030 BROWN BEAR, UW
65-0031 TUGBOAT, POG
65-0032 ENDEAVOUR, POG?
65-0034 MACBLO, POG
65-0060 ENDEAVOUR, UBC
WL
05-0005 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
135.0
130.0
125.0
55.0
50.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

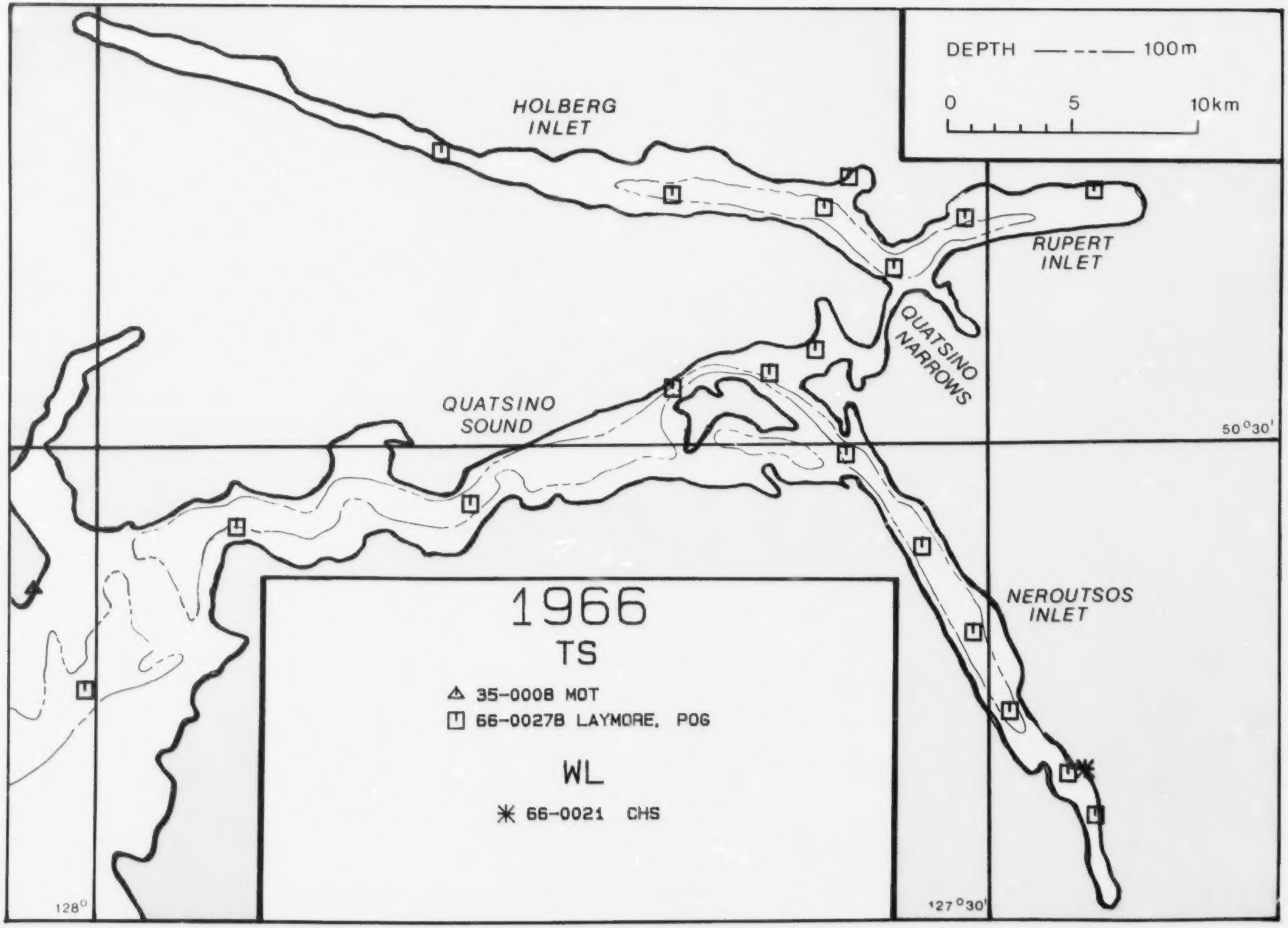

1965
TS
△ 34-0007 MOT
35-0008 MOT
▽ 64-0028 POG
◇ 65-0012 ENDEAVOUR, UBC
65-0025 G.B. KELEZ (US)
⧗ 65-0026 BROWN BEAR, UW
65-0027 BROWN BEAR, UW
65-0028 BROWN BEAR, UW
65-0029 BROWN BEAR, UW
65-0030 BROWN BEAR, UW
⋈ 65-0032 ENDEAVOUR, POG?
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
2500
2500
1000
200
50.0 N
48.0N
46.0N
129.0W
126.0W

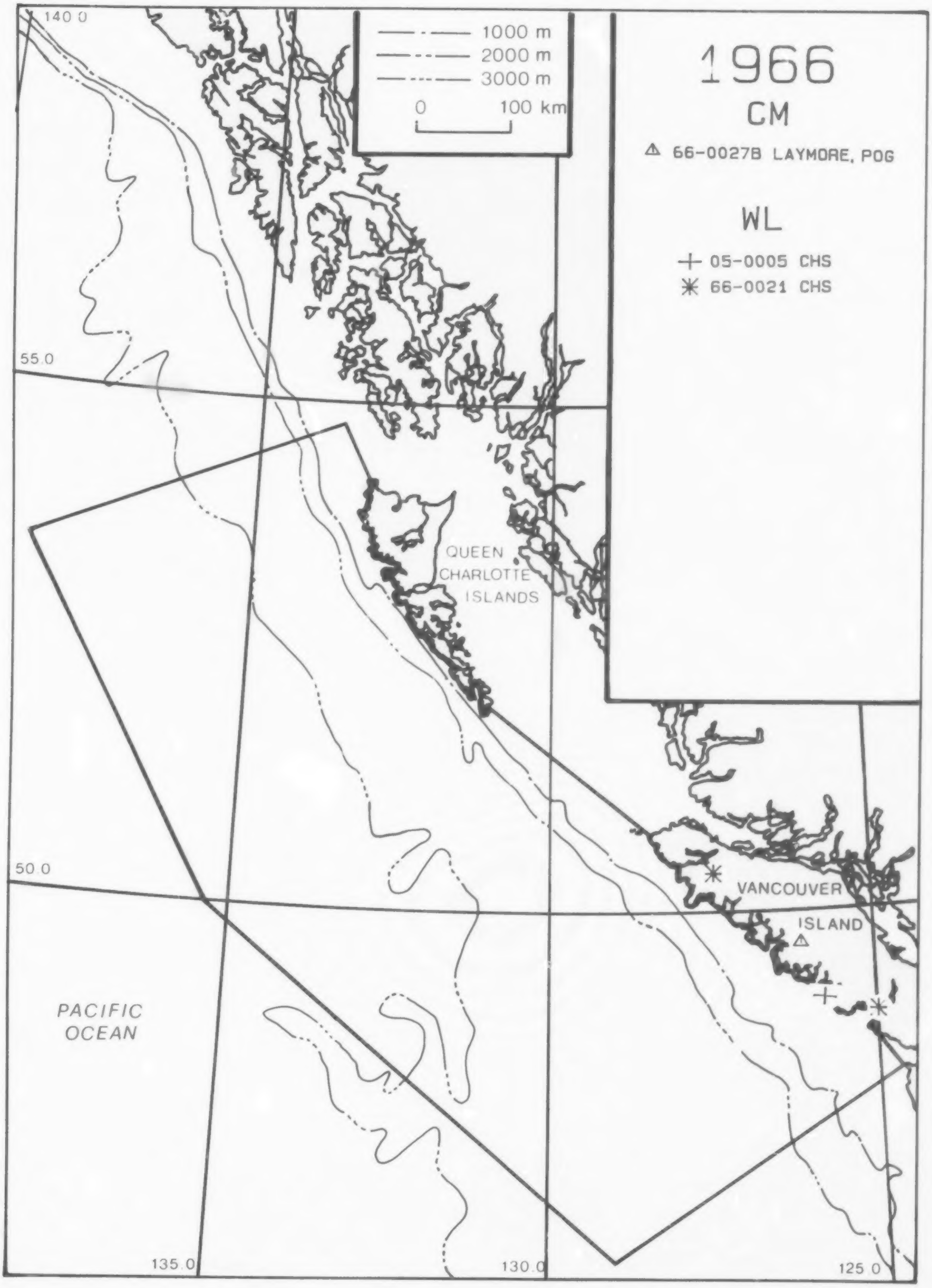

1965
TS
△ 64-0028 POG
⍞ 65-0031 TUGBOAT, POG
▽ 65-0034 MACBLO, POG
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125° 20'
125°
0 5 10 km
DEPTH
50 m
100 m

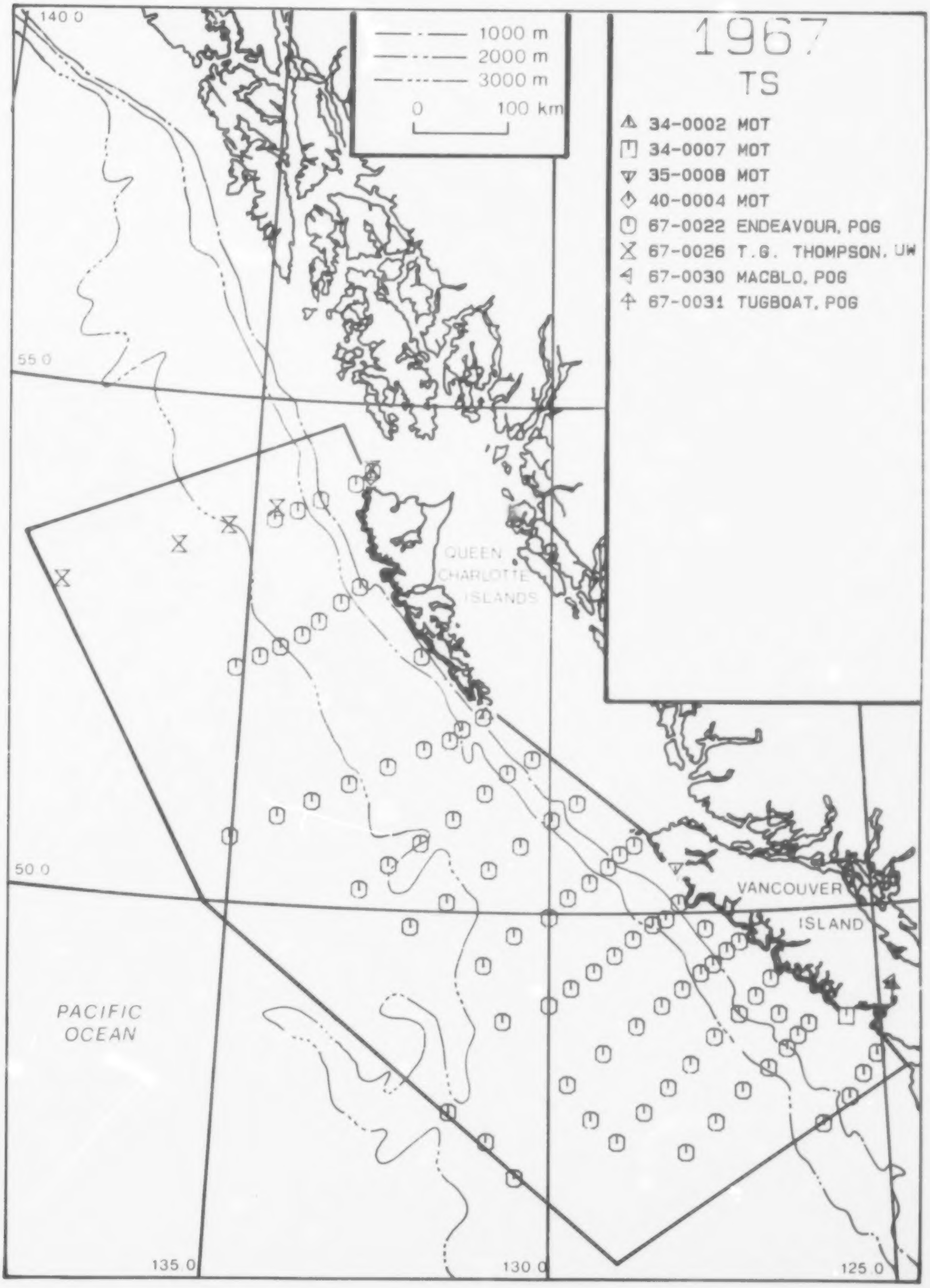

1966
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
66-0025 ENDEAVOUR, UBC
66-0026 YAQUINA (US)
66-0027A LAYMORE, POG
66-0027B LAYMORE, POG
66-0029 T. G. THOMPSON, UW
66-0030 MACBLO, POG
66-0031 TUGBOAT, POG
DRF
66-0060 MAR. SC. BRANCH
1000 m
2000 m
3000 m
0
100 km
140 0
55.0
50 0
135 0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
66-0027A
66-0060
PACIFIC OCEAN

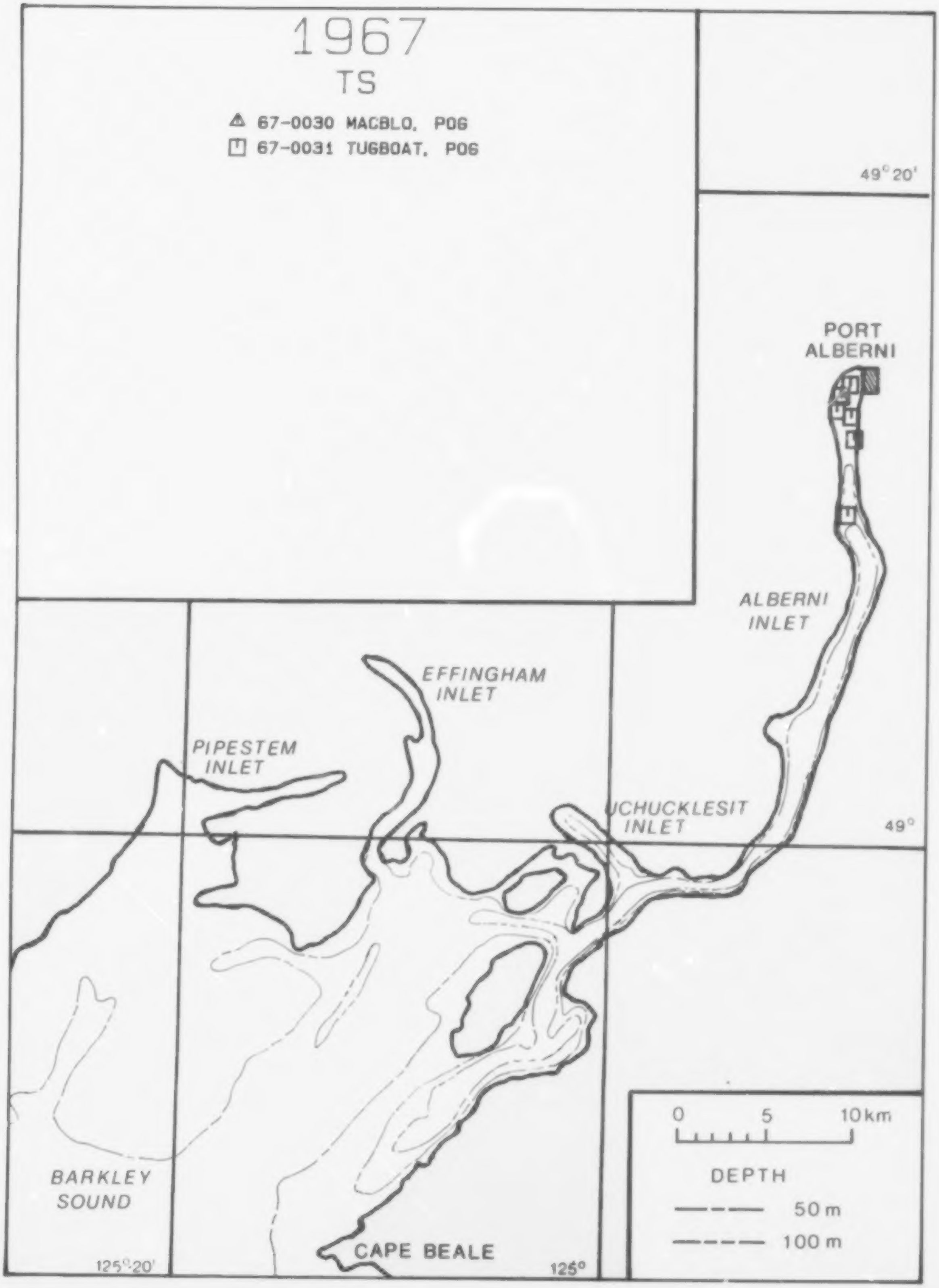

1966
TS
34-0007 MOT
35-0008 MOT
66-0025 ENDEAVOUR, UBC
66-0027A LAYMORE, POG
66-0027B LAYMORE, POG
66-0029 T. G. THOMPSON, UW
66-0031 TUGBOAT, POG
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0 N
46.0 N
126.0 W
129.0 W
200
1000
2500
2500
2500

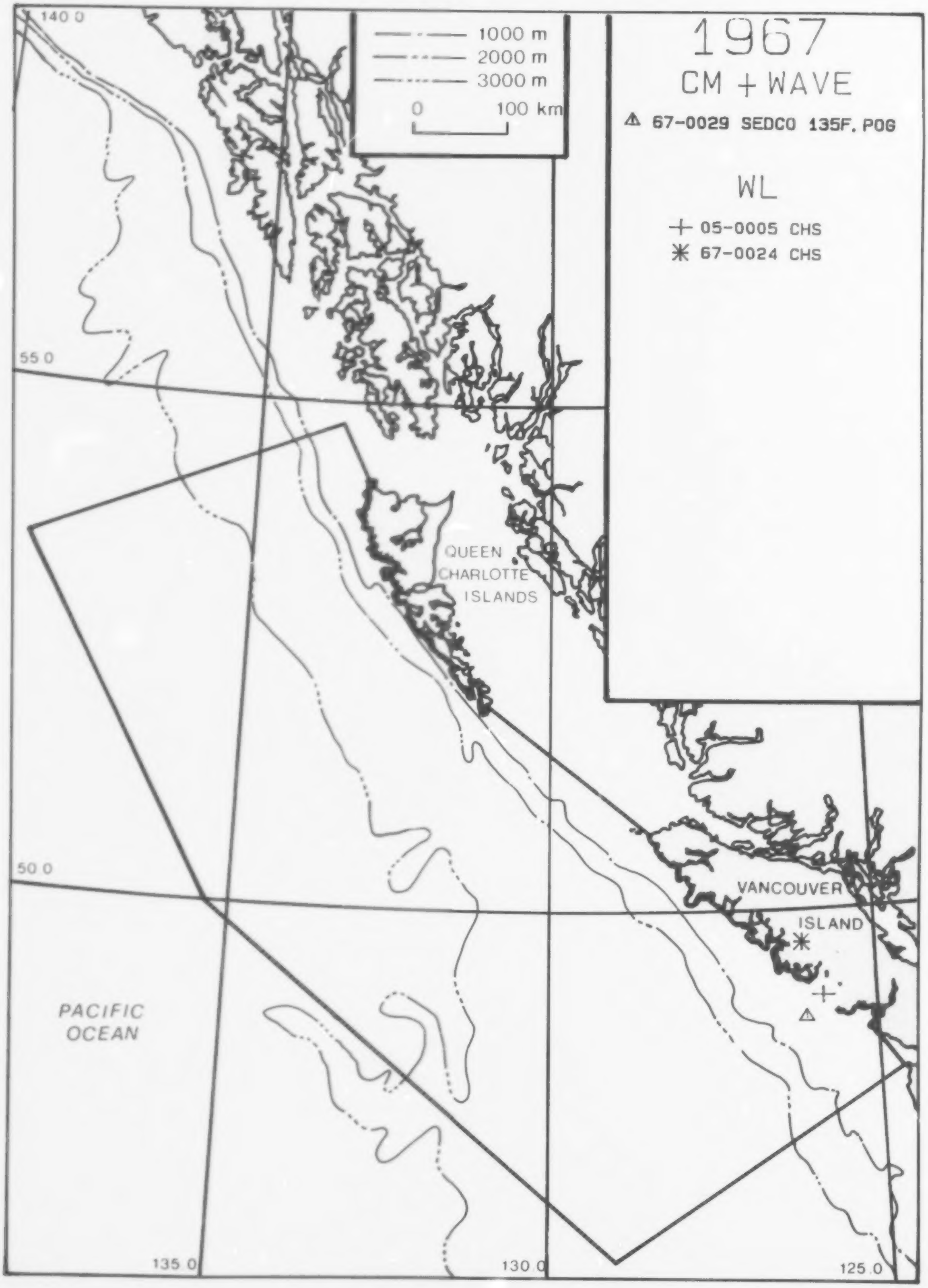

1966
TS
⋈ 66-0027A LAYMORE, POG
△ 66-0030 MACBLO, POG
□ 66-0031 TUGBOAT, POG
WL
✳ 66-0021 CHS
DRF
▦ 66-0060 MAR.SC.BRANCH
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

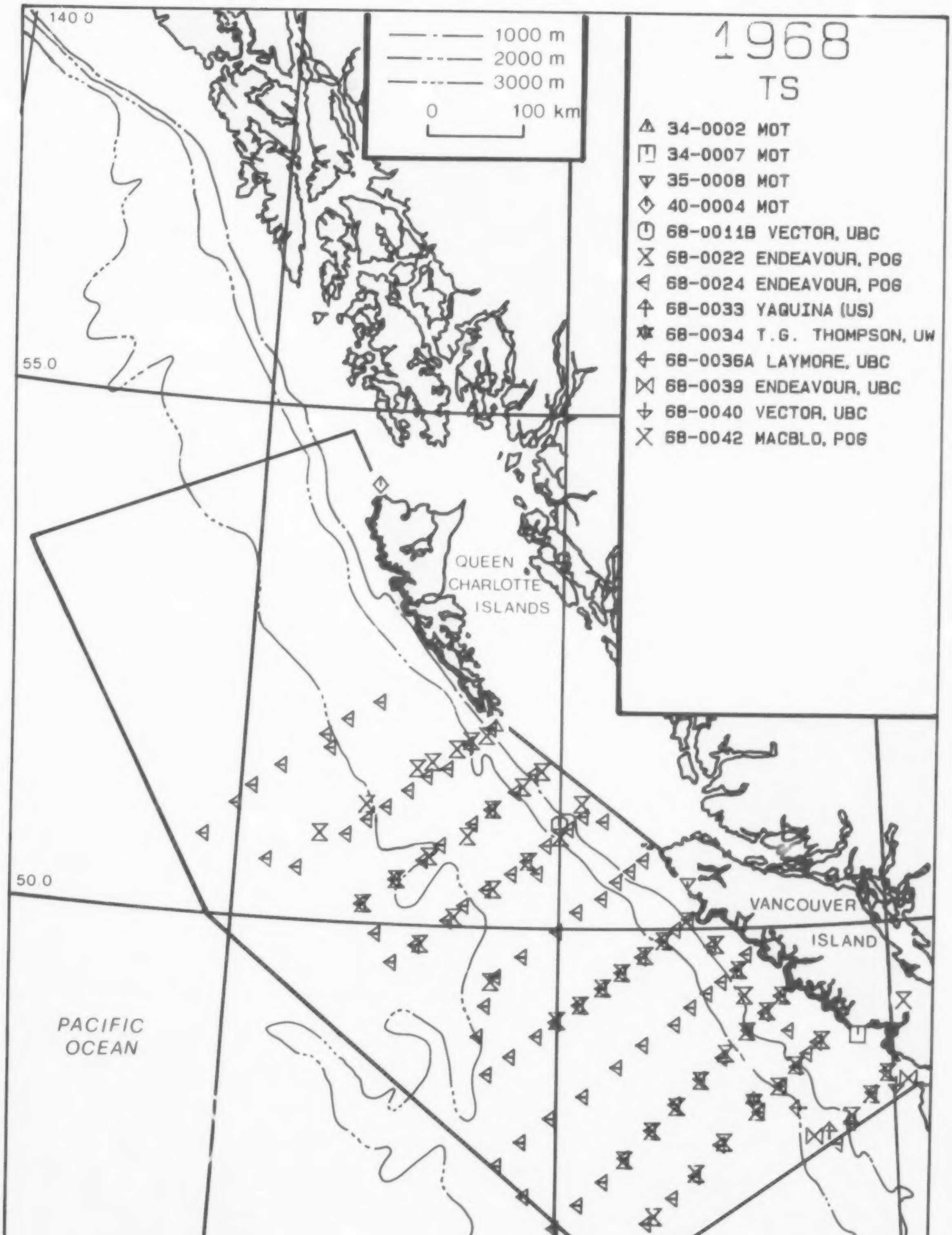

DEPTH ——-—-—— 100m
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
128°
127°30'
1966
TS
△ 35-0008 MOT
□ 66-0027B LAYMORE, POG
WL
✳ 66-0021 CHS

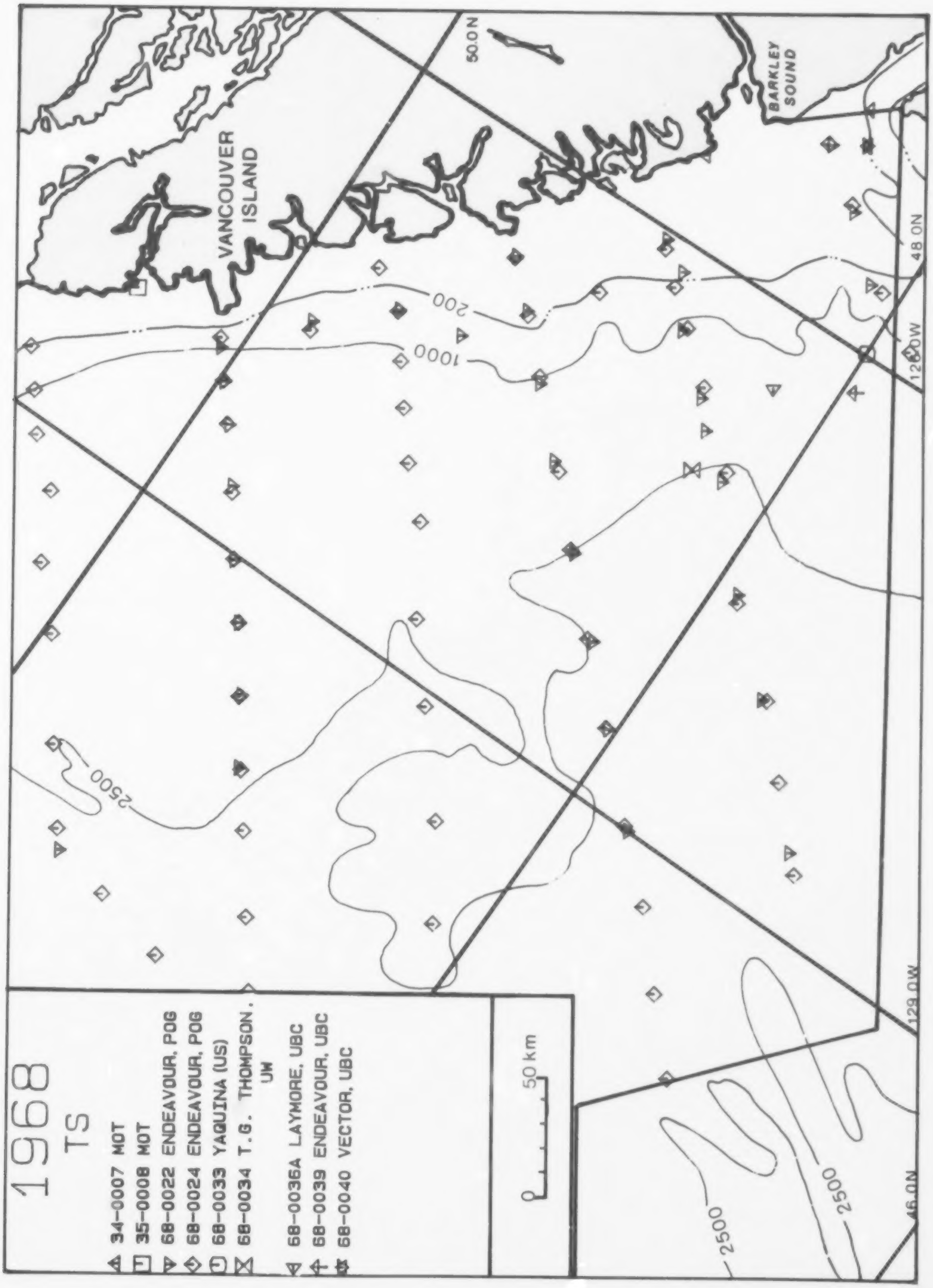

140.0
1000 m
2000 m
3000 m
0
100 km
1966
CM
⚠ 66-0027B LAYMORE, POG
WL
+ 05-0005 CHS
✳ 66-0021 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

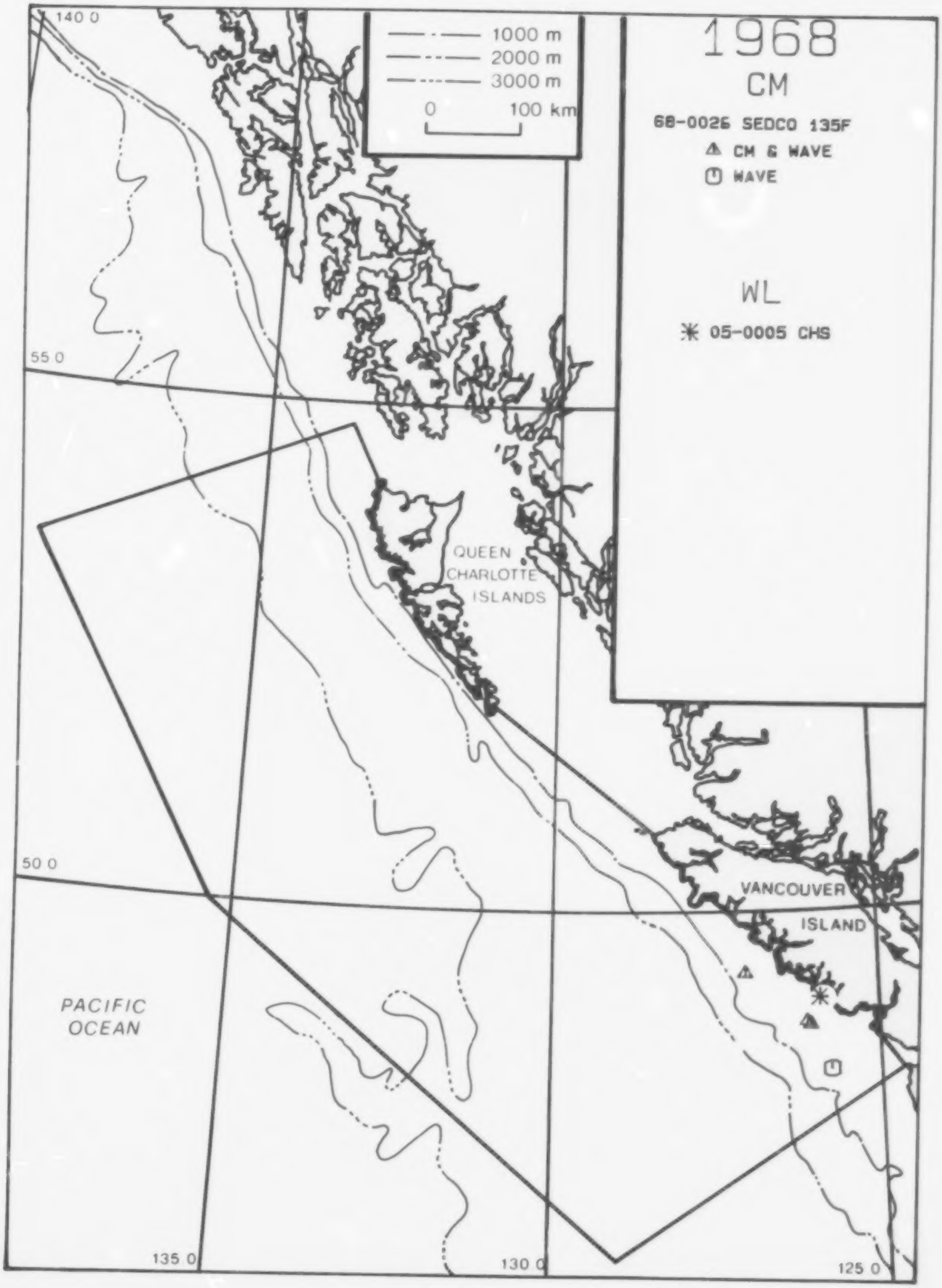

140.0
1000 m
2000 m
3000 m
0
100 km
1967
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
67-0022 ENDEAVOUR, POG
67-0026 T.G. THOMPSON, UW
67-0030 MACBLO, POG
67-0031 TUGBOAT, POG
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

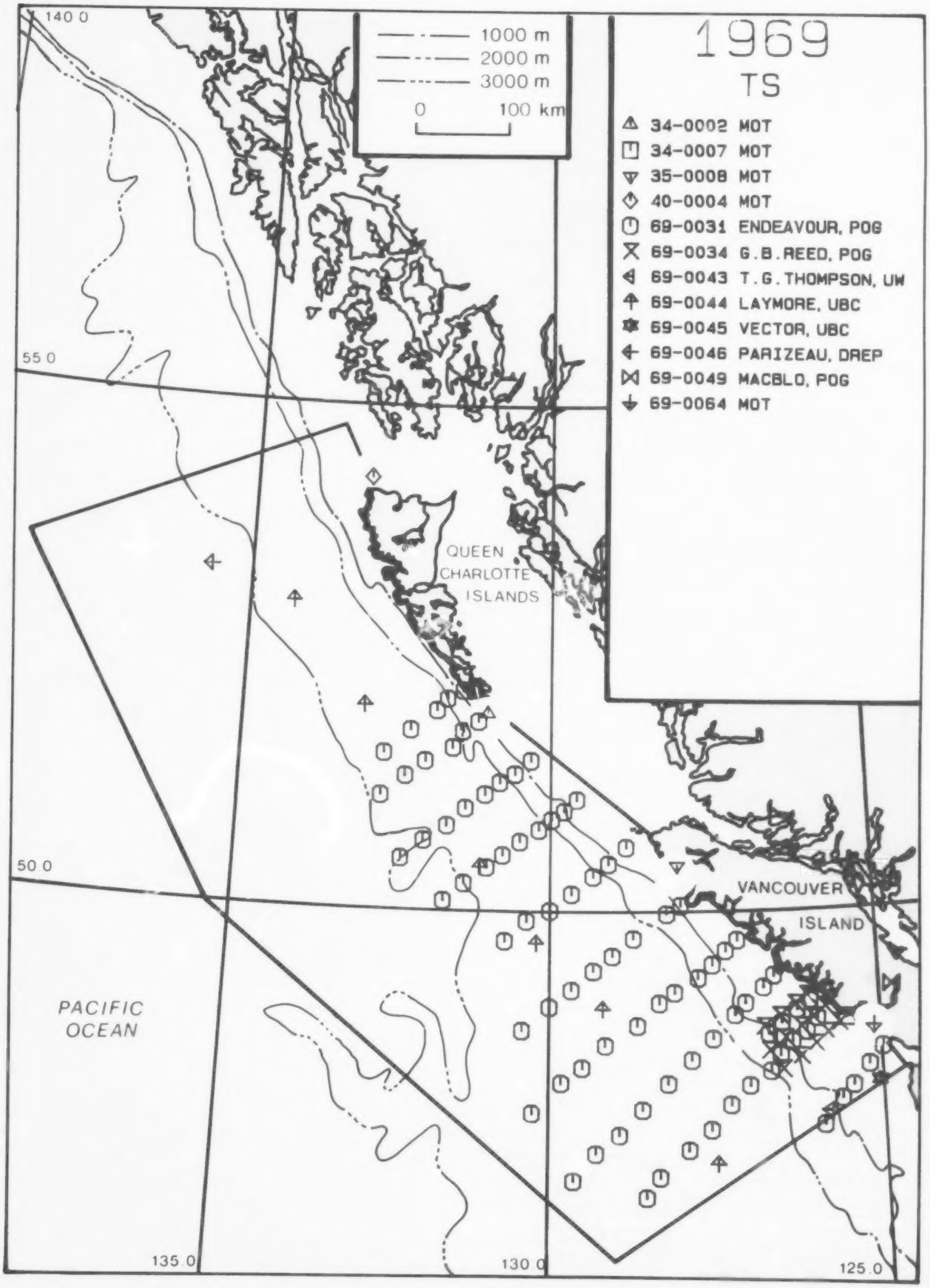

1967
TS
⚠ 67-0030 MACBLO. P06
☐ 67-0031 TUGBOAT. P06
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125° 20'
125°
0
5
10 km
DEPTH
50 m
100 m

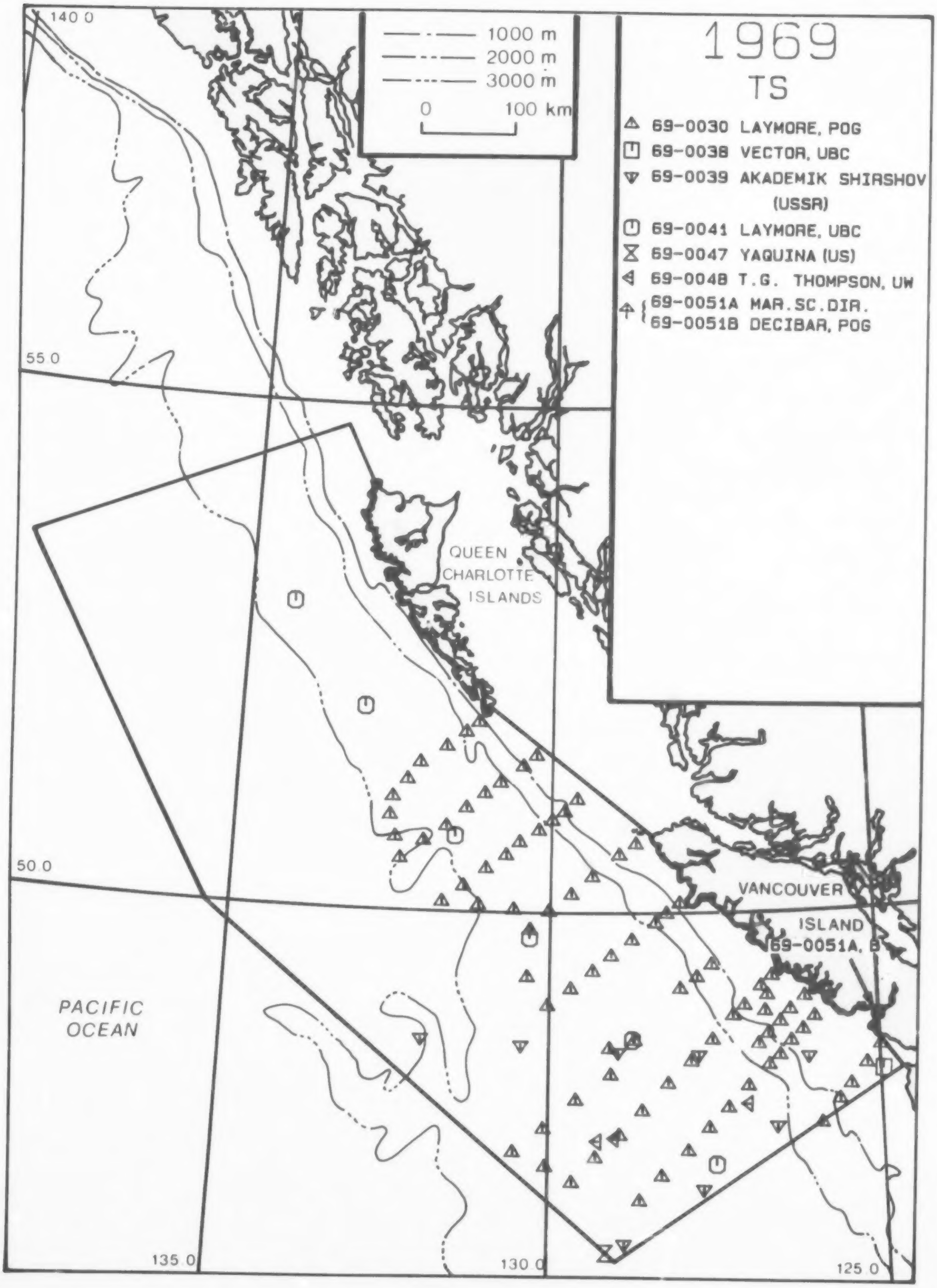

1000 m
2000 m
3000 m
0 100 km
1967
CM + WAVE
⚠ 67-0029 SEDCO 135F. POG
WL
+ 05-0005 CHS
✳ 67-0024 CHS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

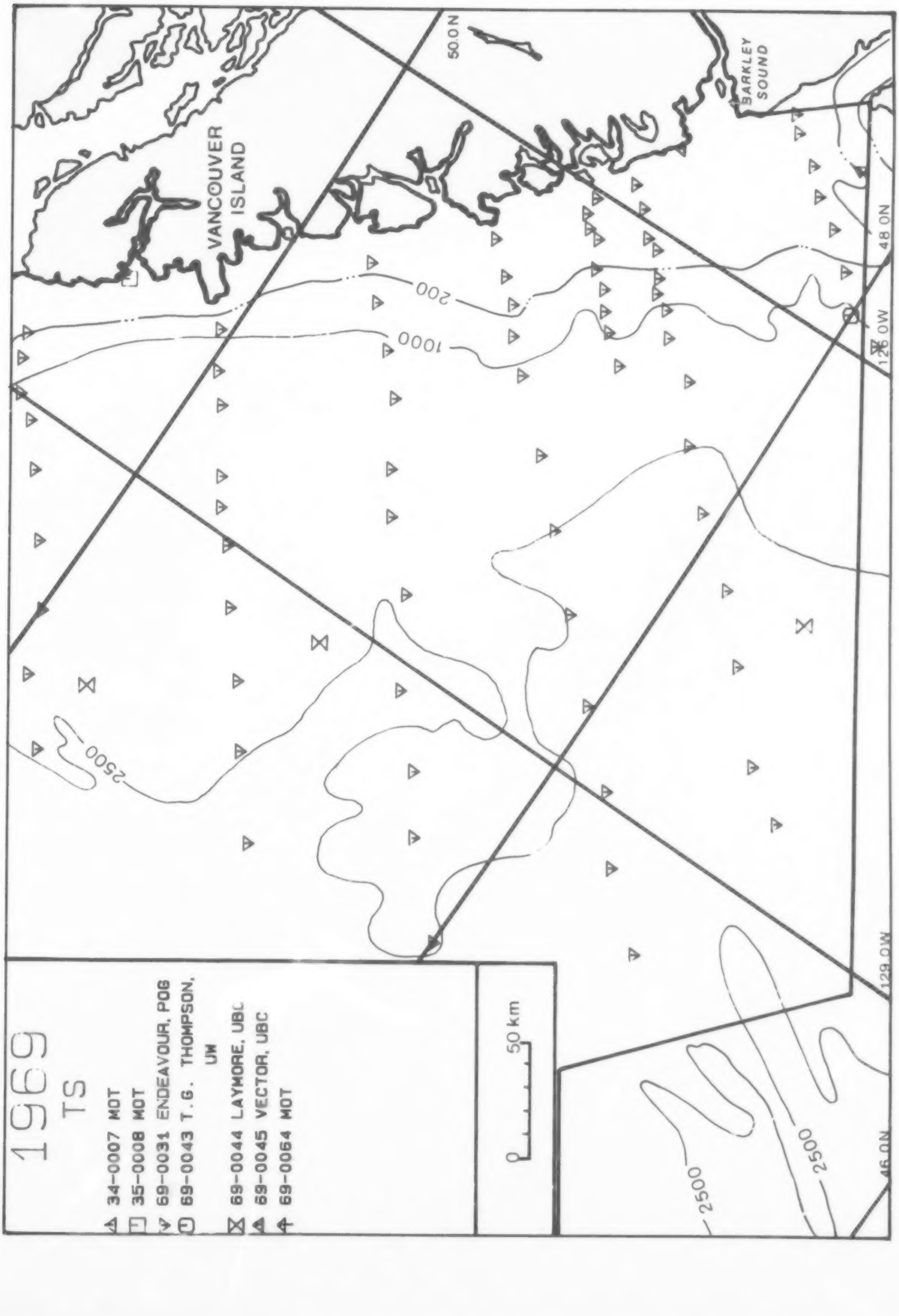

1968
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
68-0011B VECTOR, UBC
68-0022 ENDEAVOUR, POG
68-0024 ENDEAVOUR, POG
68-0033 YAQUINA (US)
68-0034 T.G. THOMPSON, UW
68-0036A LAYMORE, UBC
68-0039 ENDEAVOUR, UBC
68-0040 VECTOR, UBC
68-0042 MACBLO, POG
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

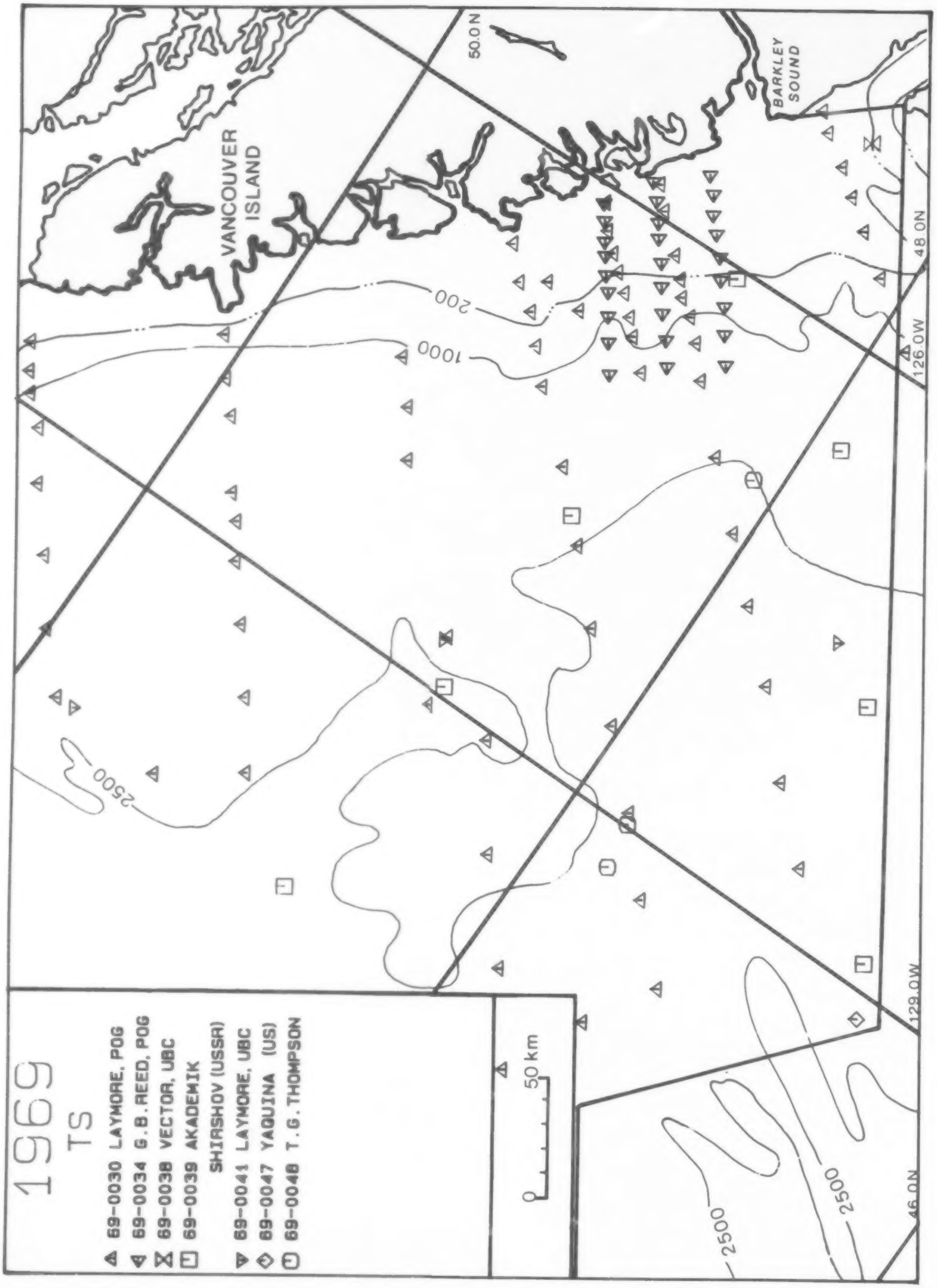

1968
TS
△ 34-0007 MOT
⊡ 35-0008 MOT
▽ 68-0022 ENDEAVOUR, POG
◇ 68-0024 ENDEAVOUR, POG
⊙ 68-0033 YAQUINA (US)
⊠ 68-0034 T.G. THOMPSON, UW
▽ 68-0036A LAYMORE, UBC
✢ 68-0039 ENDEAVOUR, UBC
✧ 68-0040 VECTOR, UBC
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

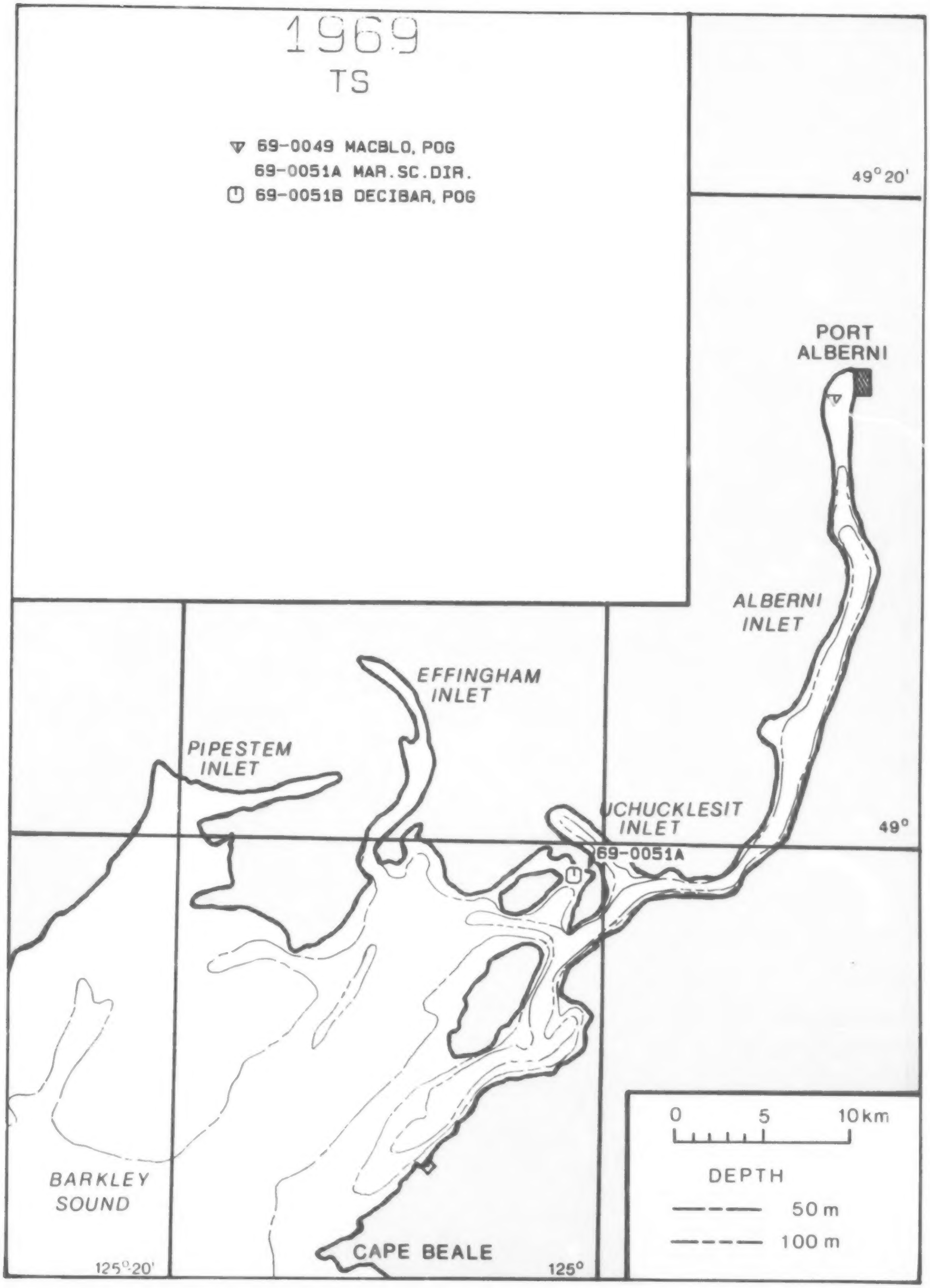

1000 m
2000 m
3000 m
0
100 km
1968
CM
68-0026 SEDCO 135F
⚠ CM & WAVE
Ⓤ WAVE
WL
✳ 05-0005 CHS
140 0
55 0
50 0
135 0
130 0
125 0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

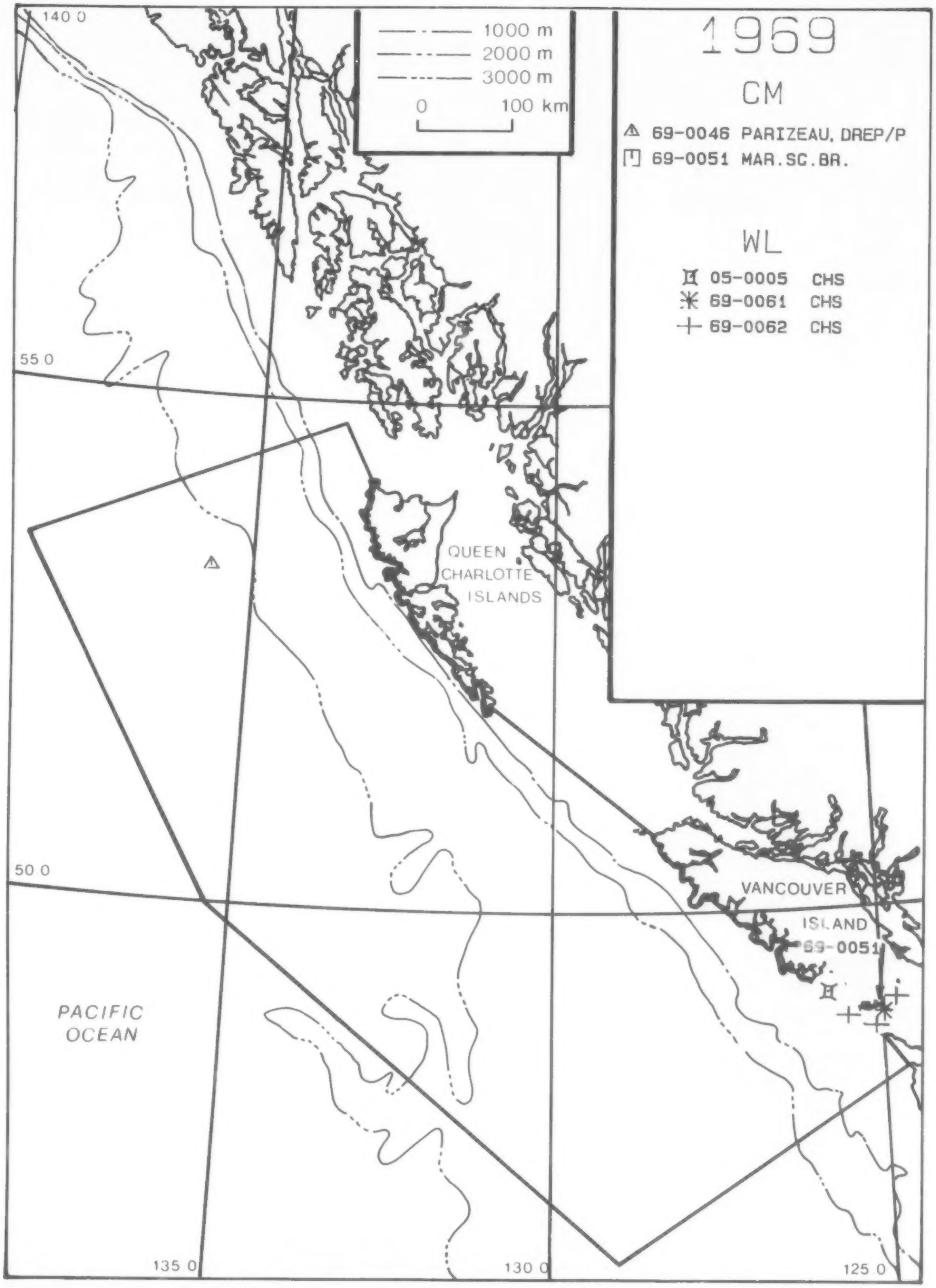

140.0
1000 m
2000 m
3000 m
0
100 km
1969
TS
△ 34-0002 MOT
34-0007 MOT
▽ 35-0008 MOT
◇ 40-0004 MOT
69-0031 ENDEAVOUR, POG
69-0034 G.B.REED, POG
◁ 69-0043 T.G.THOMPSON, UW
69-0044 LAYMORE, UBC
69-0045 VECTOR, UBC
69-0046 PARIZEAU, DREP
⋈ 69-0049 MACBLO, POG
↓ 69-0064 MOT
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

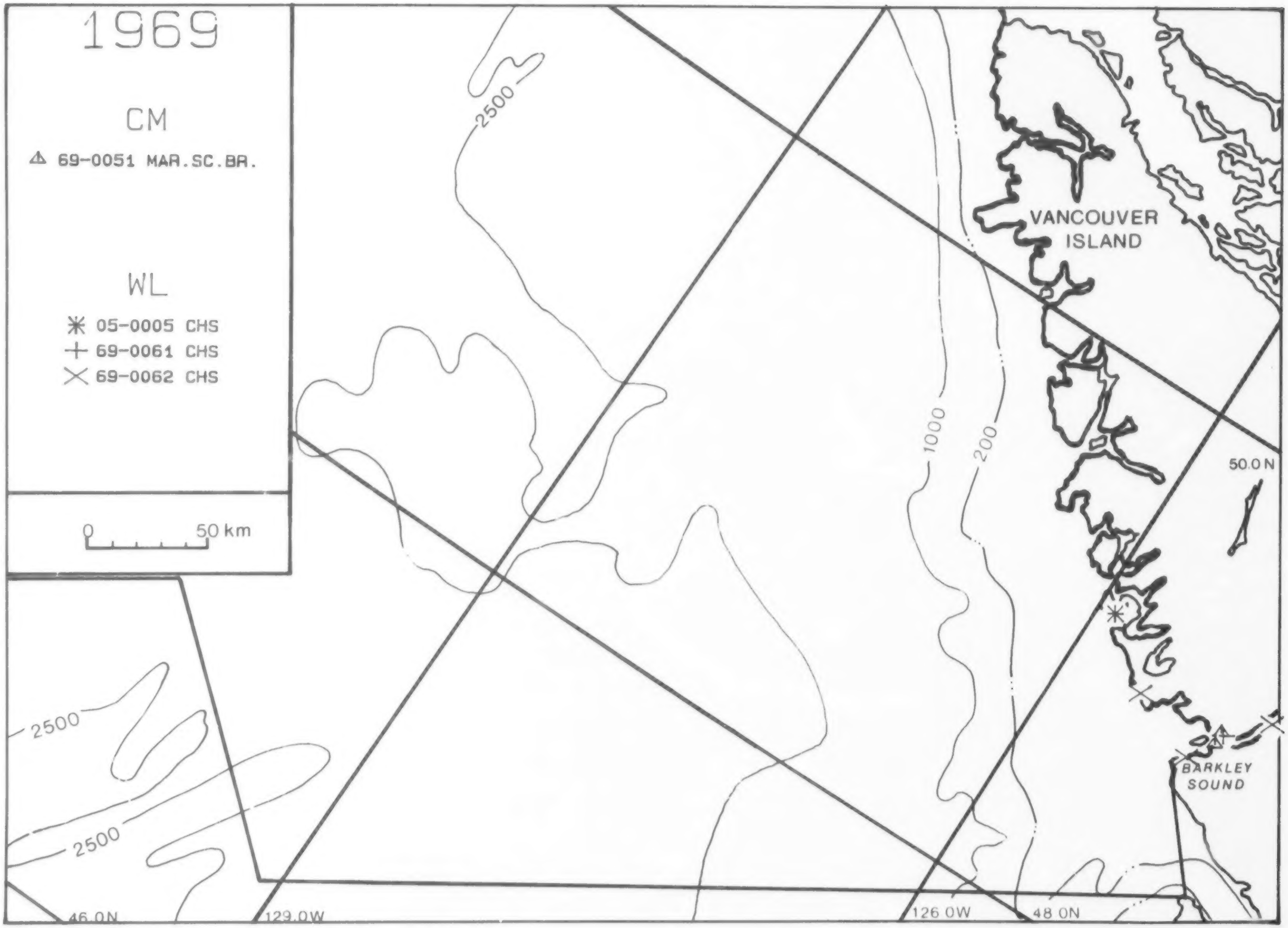

1969
TS
△ 69-0030 LAYMORE, POG
69-0038 VECTOR, UBC
▽ 69-0039 AKADEMIK SHIRSHOV (USSR)
69-0041 LAYMORE, UBC
69-0047 YAQUINA (US)
◁ 69-0048 T.G. THOMPSON, UW
69-0051A MAR.SC.DIR.
69-0051B DECIBAR, POG
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
69-0051A, B
PACIFIC OCEAN

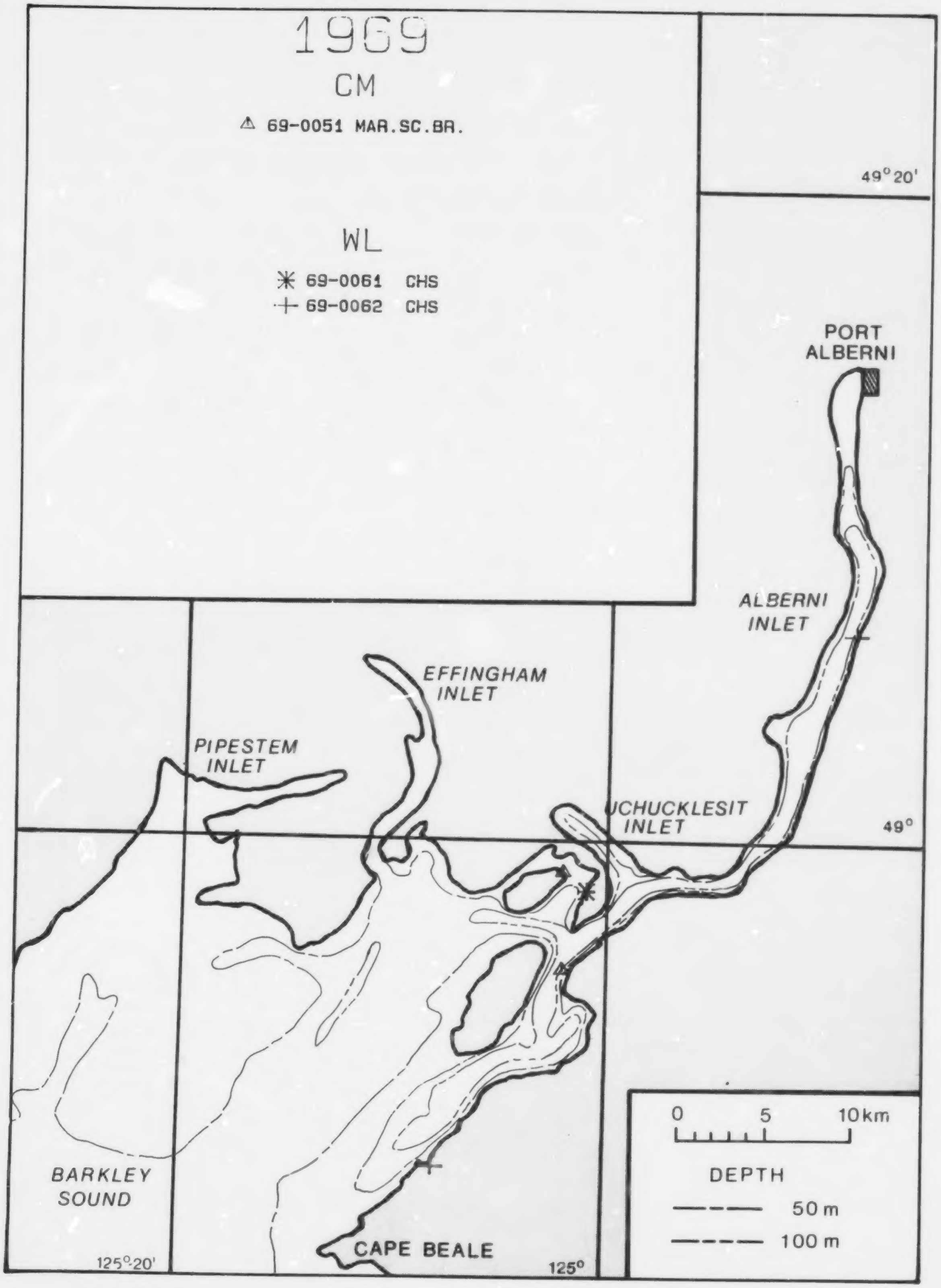

1969
TS
△ 34-0007 MOT
☐ 35-0008 MOT
▽ 69-0031 ENDEAVOUR, POG
Ⓣ 69-0043 T.G. THOMPSON, UW
☒ 69-0044 LAYMORE, UBC
▲ 69-0045 VECTOR, UBC
+ 69-0064 MOT
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0 N
46.0 N
126.0 W
129.0 W
200
1000
2500
2500
2500
2500

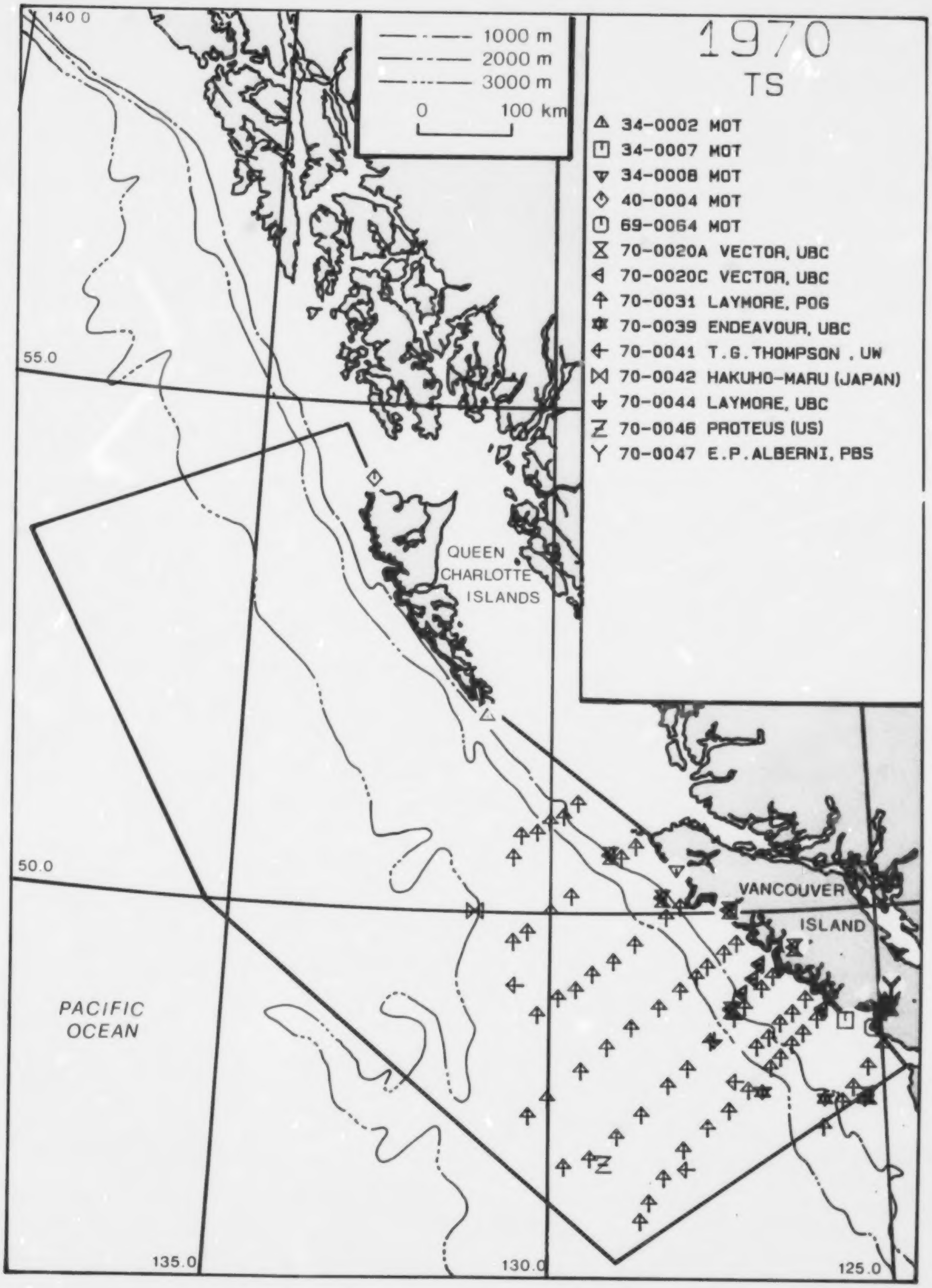

1969
TS
69-0030 LAYMORE, POG
69-0034 G.B.REED, POG
69-0038 VECTOR, UBC
69-0039 AKADEMIK SHIRSHOV (USSR)
69-0041 LAYMORE, UBC
69-0047 YAQUINA (US)
69-0048 T.G.THOMPSON
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48 0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

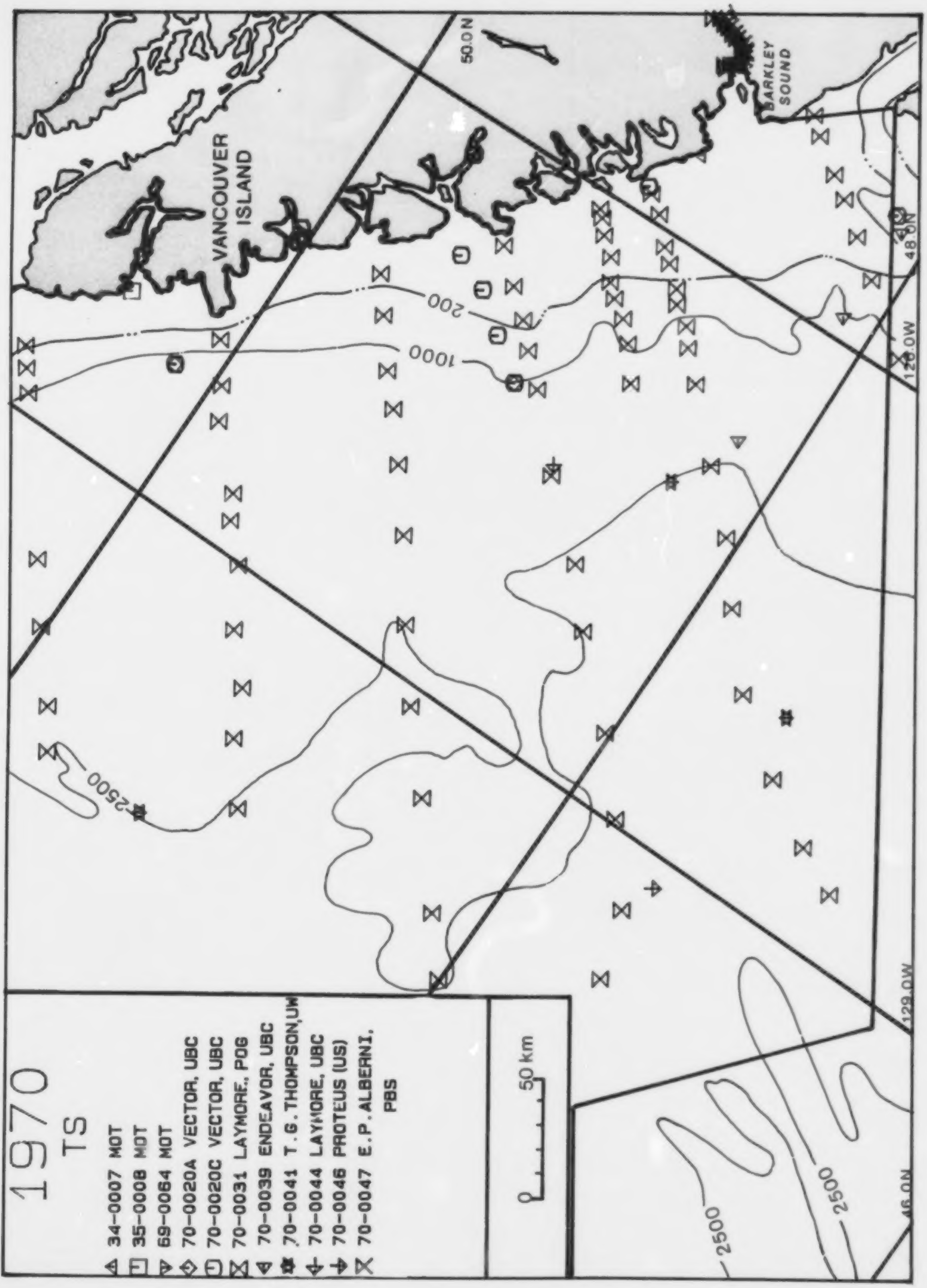

1969
TS
▽ 69-0049 MACBLO, POG
69-0051A MAR.SC.DIR.
69-0051B DECIBAR, POG
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
69-0051A
0 5 10 km
DEPTH
50 m
100 m
BARKLEY SOUND
CAPE BEALE
125°20'
125°

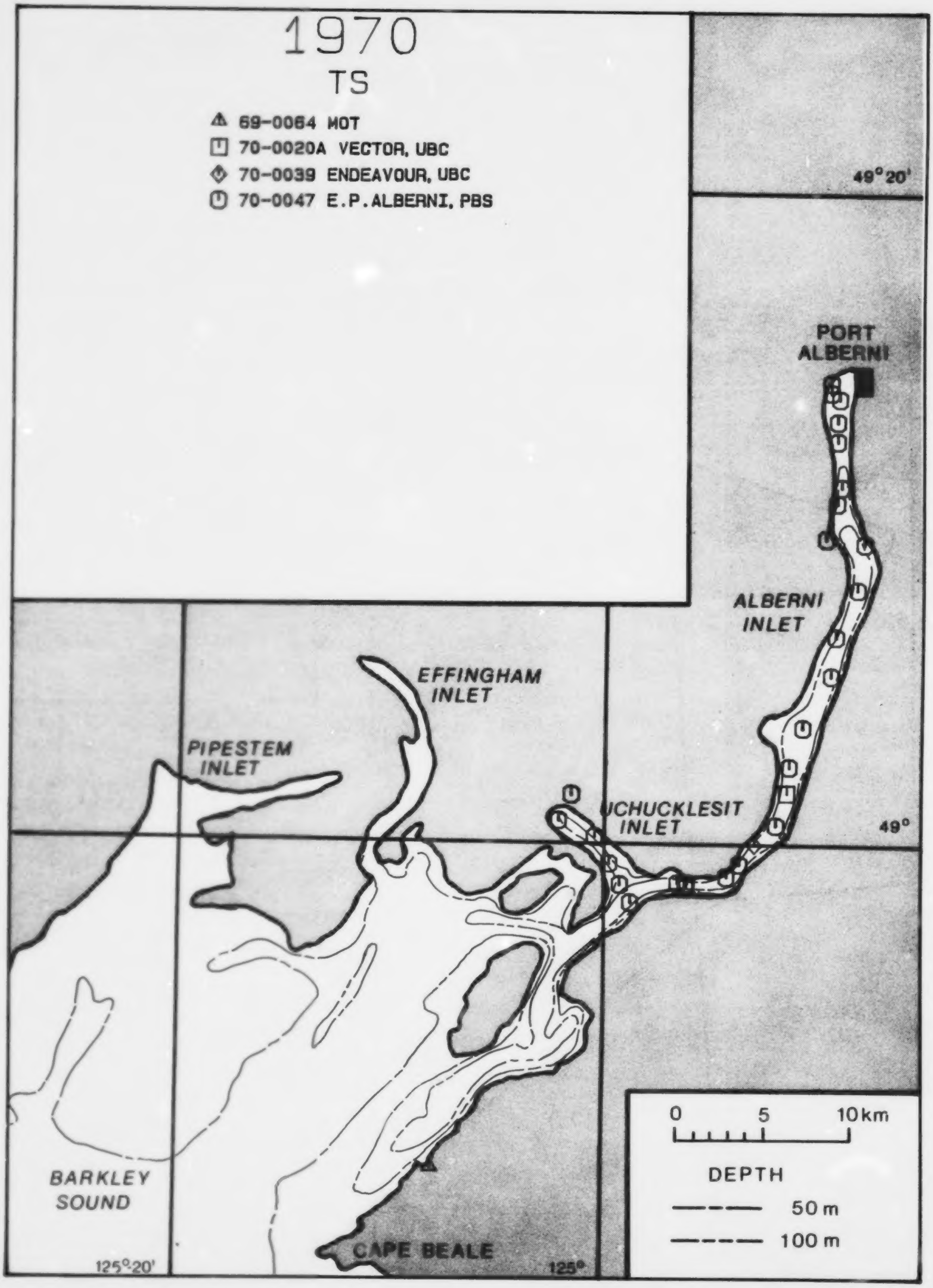

140 0
1000 m
2000 m
3000 m
0 100 km
1969
CM
△ 69-0046 PARIZEAU, DREP/P
69-0051 MAR.SC.BR.
WL
05-0005 CHS
✳ 69-0061 CHS
+ 69-0062 CHS
55 0
QUEEN CHARLOTTE ISLANDS
50 0
VANCOUVER ISLAND
69-0051
PACIFIC OCEAN
135 0
130 0
125 0

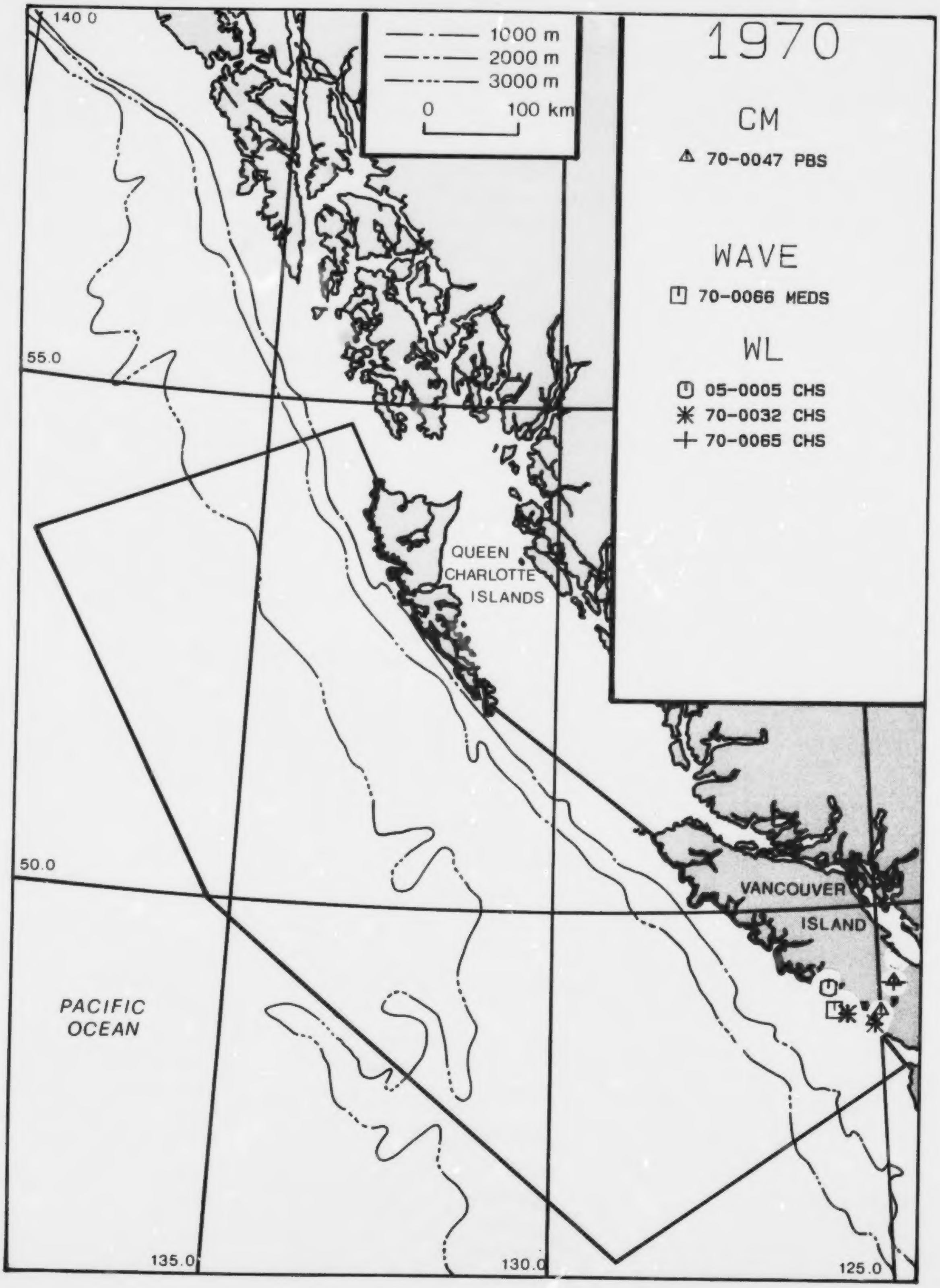

1969
CM
△ 69-0051 MAR.SC.BR.
WL
✳ 05-0005 CHS
+ 69-0061 CHS
× 69-0062 CHS
0 50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48 0N
46 0N
126 0W
129 0W
200
1000
2500
2500
2500

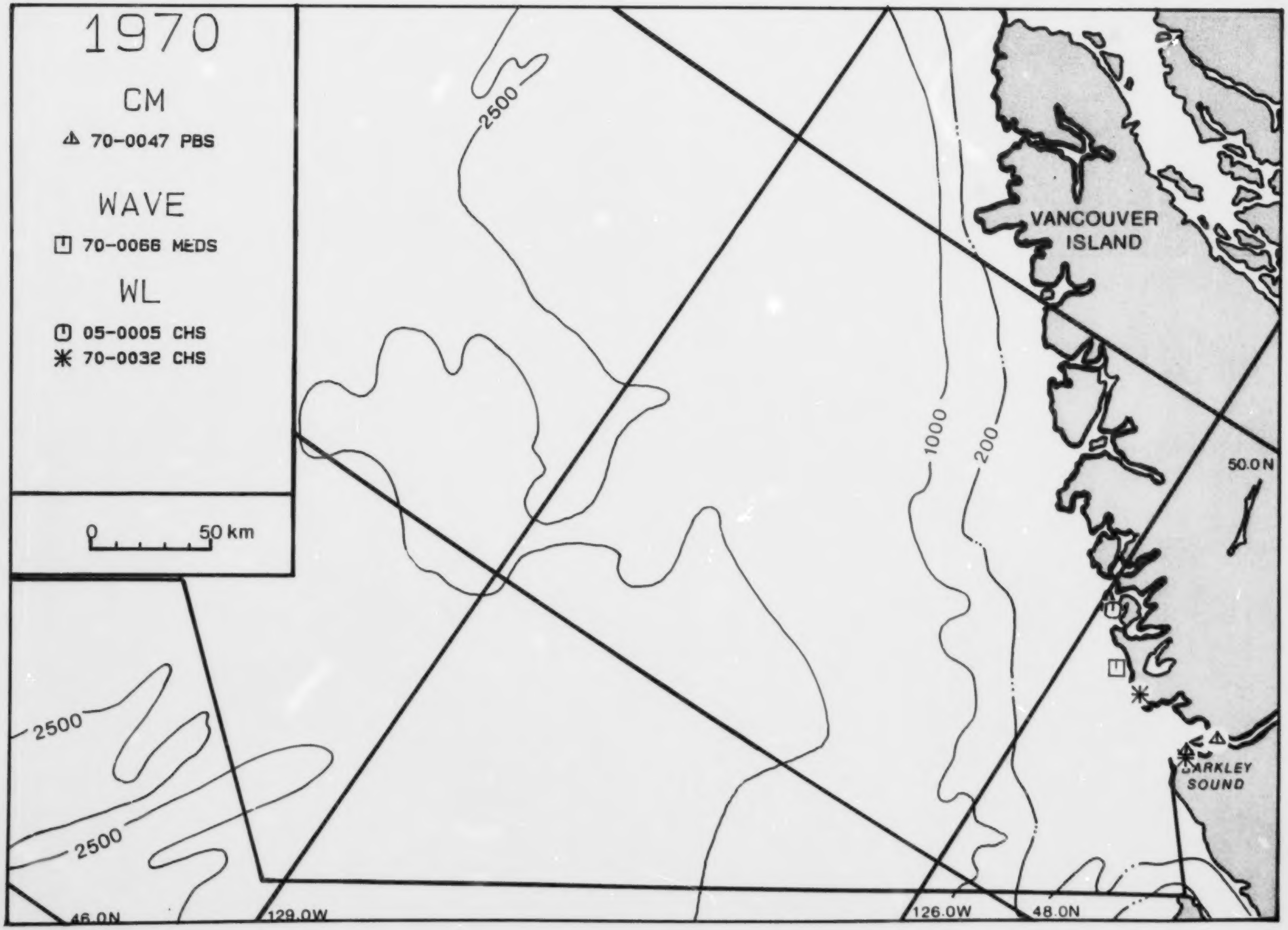

1969
CM
⚠ 69-0051 MAR.SC.BR.
WL
✳ 69-0061 CHS
+ 69-0062 CHS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

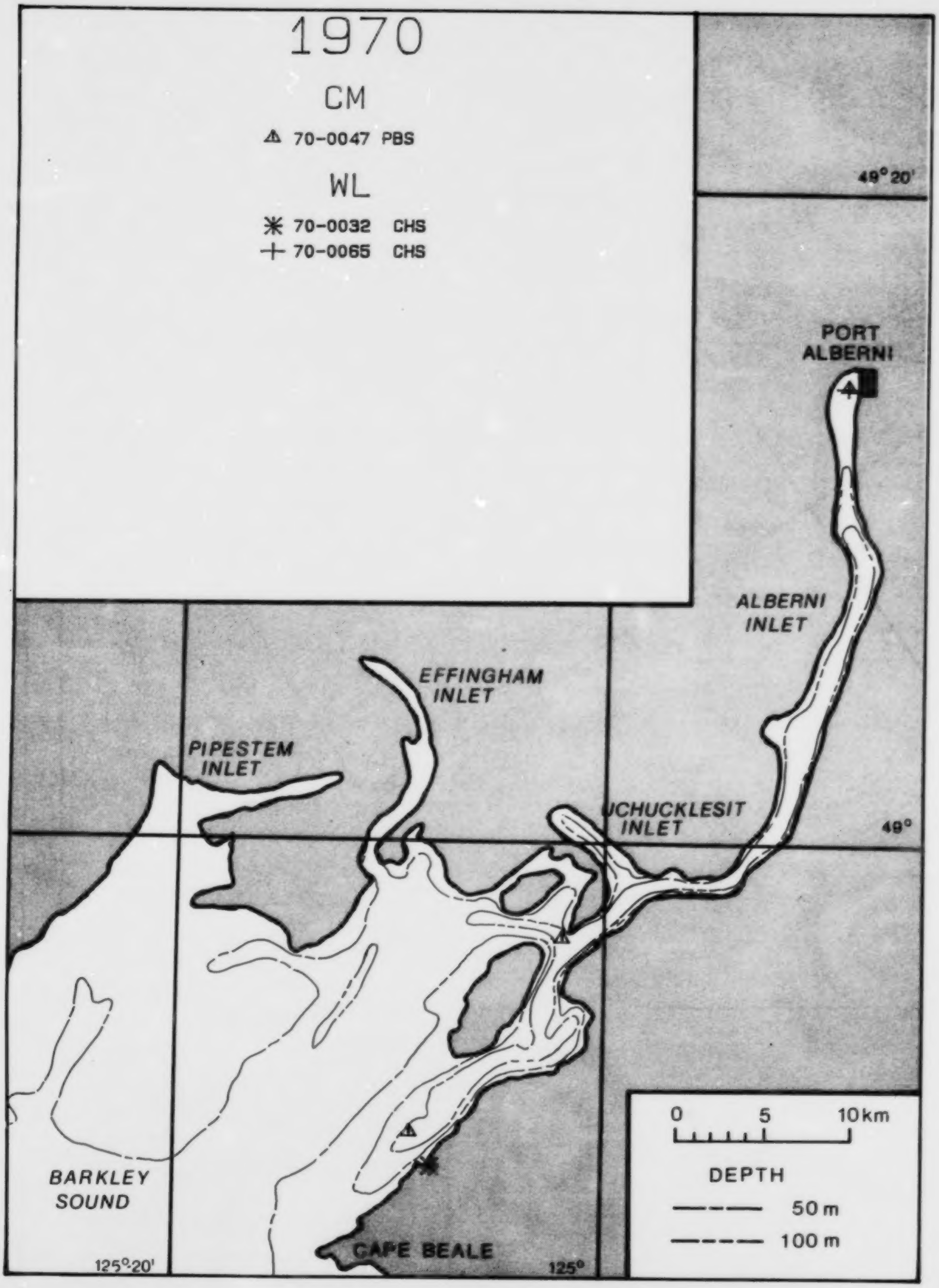

1970
TS
△ 34-0002 MOT
34-0007 MOT
▽ 34-0008 MOT
◇ 40-0004 MOT
69-0064 MOT
70-0020A VECTOR, UBC
70-0020C VECTOR, UBC
70-0031 LAYMORE, POG
70-0039 ENDEAVOUR, UBC
70-0041 T.G.THOMPSON , UW
70-0042 HAKUHO-MARU (JAPAN)
70-0044 LAYMORE, UBC
Z 70-0046 PROTEUS (US)
Y 70-0047 E.P.ALBERNI, PBS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

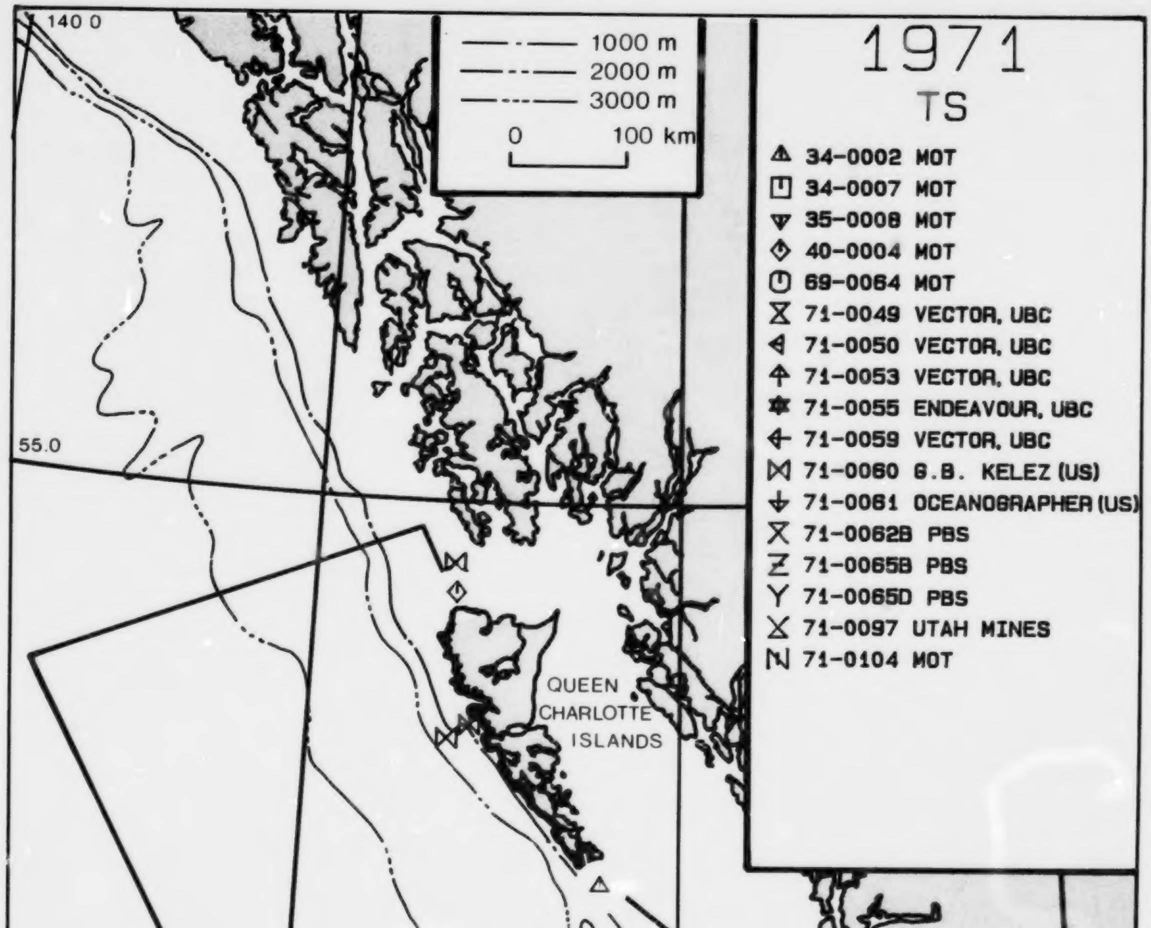

1970
TS
34-0007 MOT
35-0008 MOT
69-0064 MOT
70-0020A VECTOR, UBC
70-0020C VECTOR, UBC
70-0031 LAYMORE., POG
70-0039 ENDEAVOR, UBC
70-0041 T.G.THOMPSON,UW
70-0044 LAYMORE, UBC
70-0046 PROTEUS (US)
70-0047 E.P.ALBERNI. PBS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
127.0W
129.0W
200
1000
2500
2500
2500

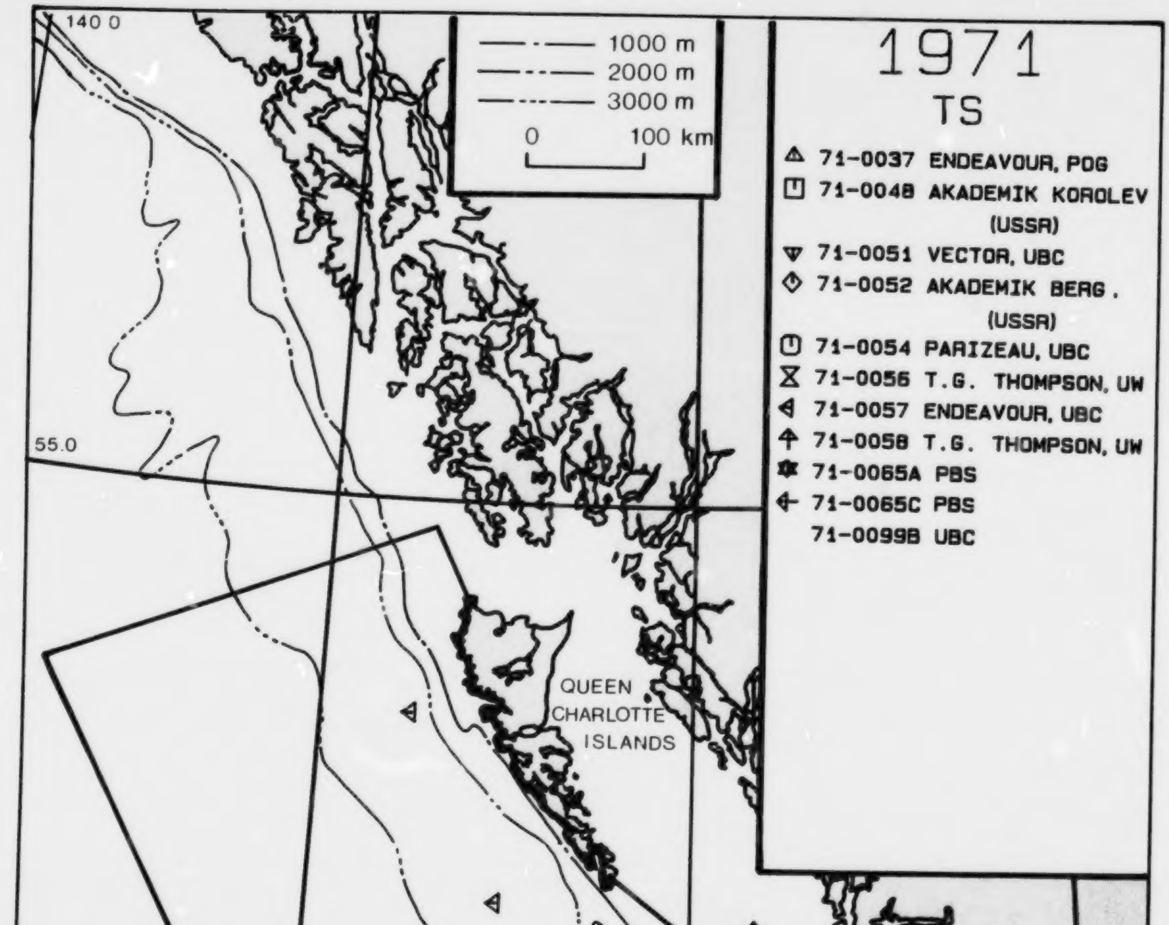

1970
TS
69-0064 MOT
70-0020A VECTOR, UBC
70-0039 ENDEAVOUR, UBC
70-0047 E.P.ALBERNI, PBS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

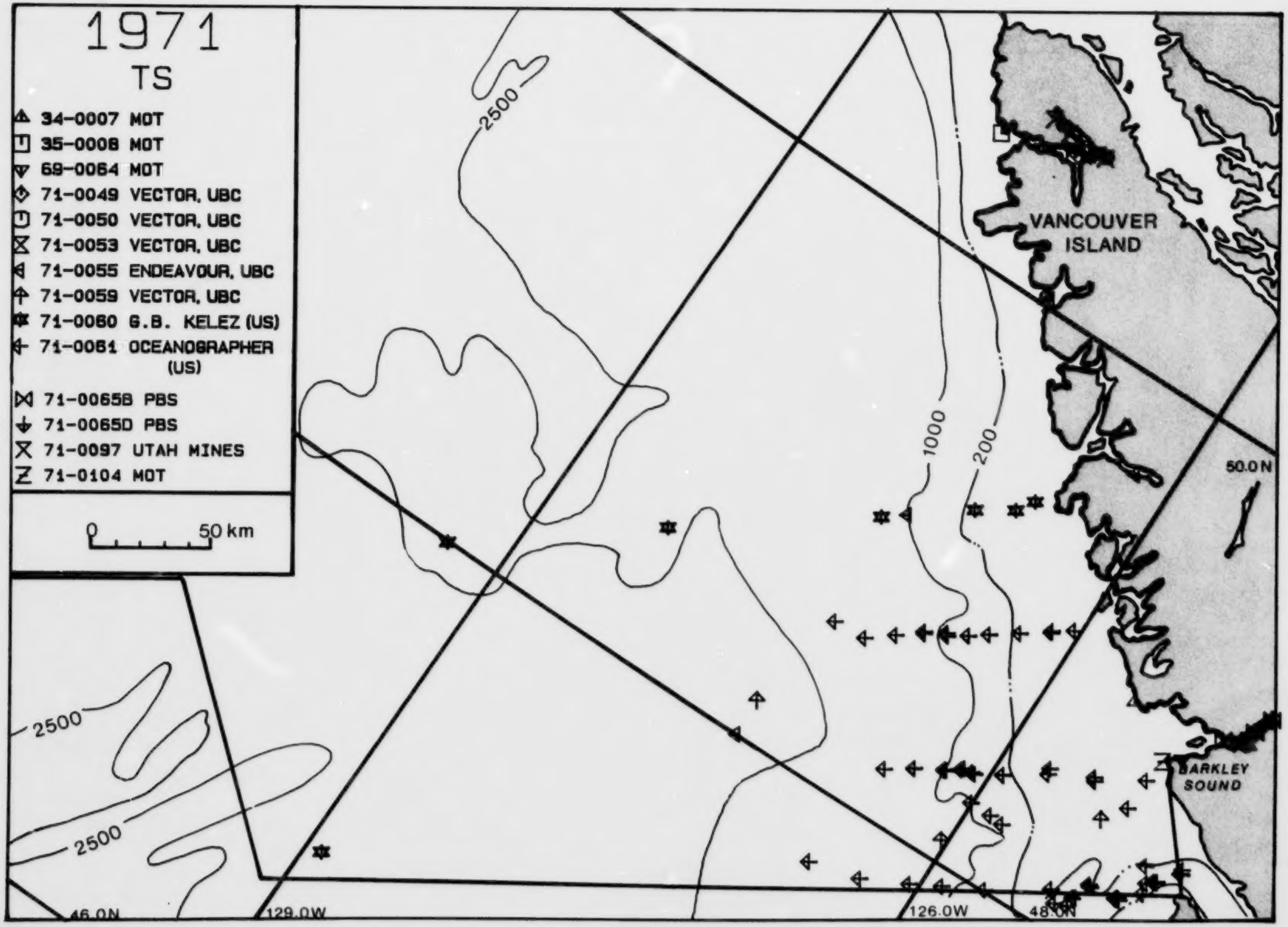

140 0
1000 m
2000 m
3000 m
0
100 km
1970
CM
△ 70-0047 PBS
WAVE
□ 70-0066 MEDS
WL
○ 05-0005 CHS
✳ 70-0032 CHS
+ 70-0065 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

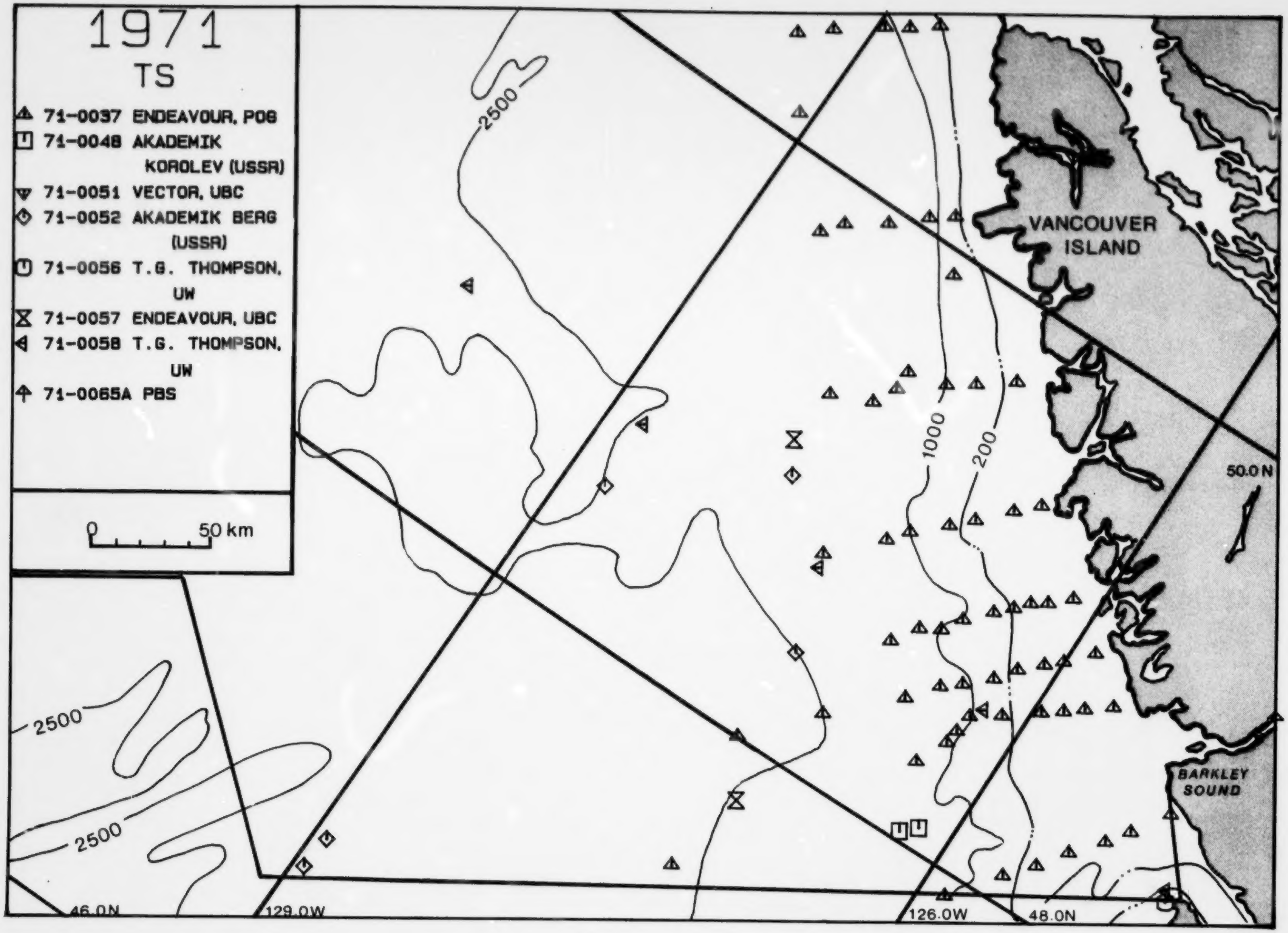

1970
CM
⚠ 70-0047 PBS
WAVE
☐ 70-0066 MEDS
WL
☐ 05-0005 CHS
✱ 70-0032 CHS
0 50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

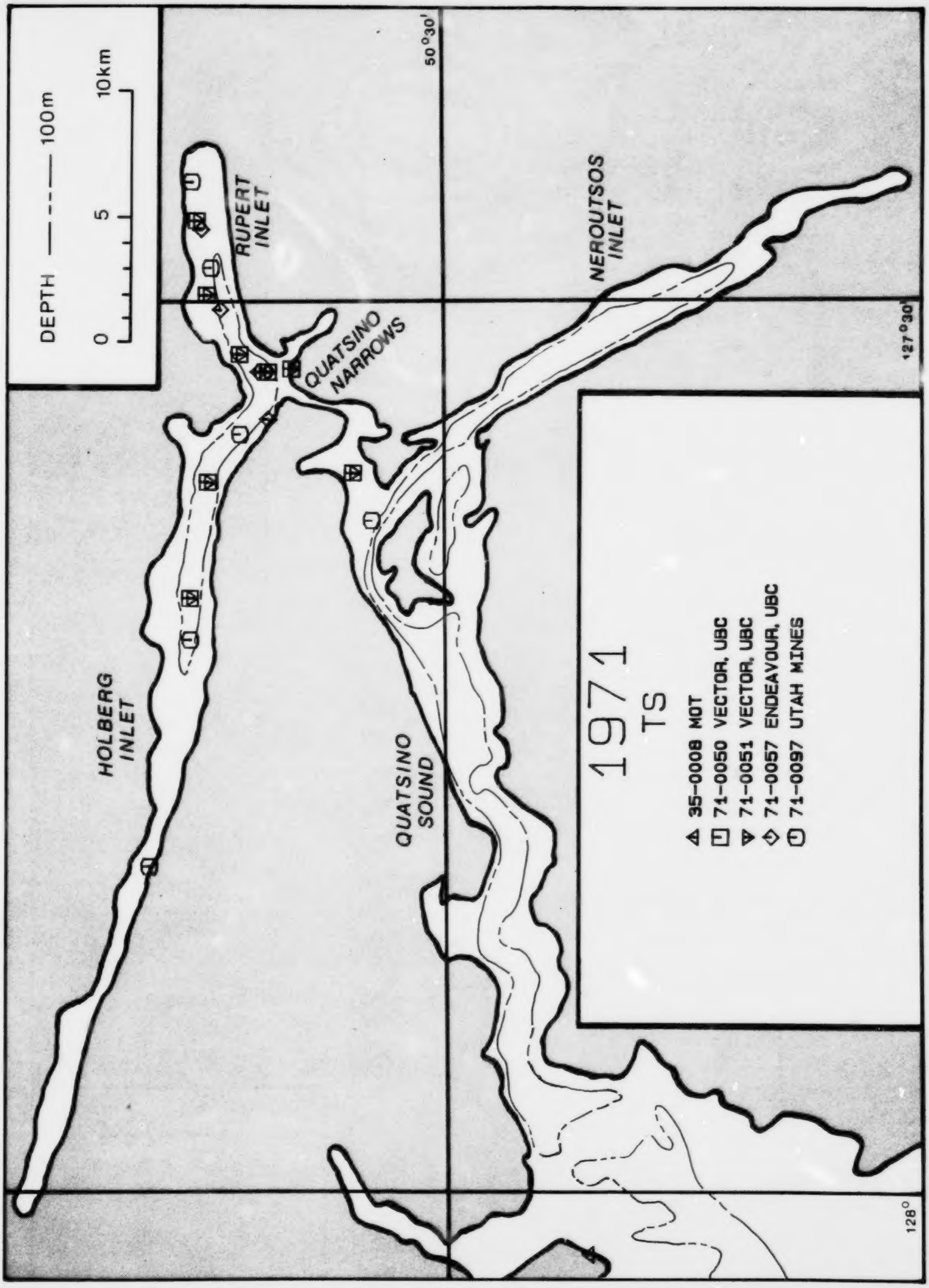

1970
CM
⚠ 70-0047 PBS
WL
✳ 70-0032 CHS
+ 70-0065 CHS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

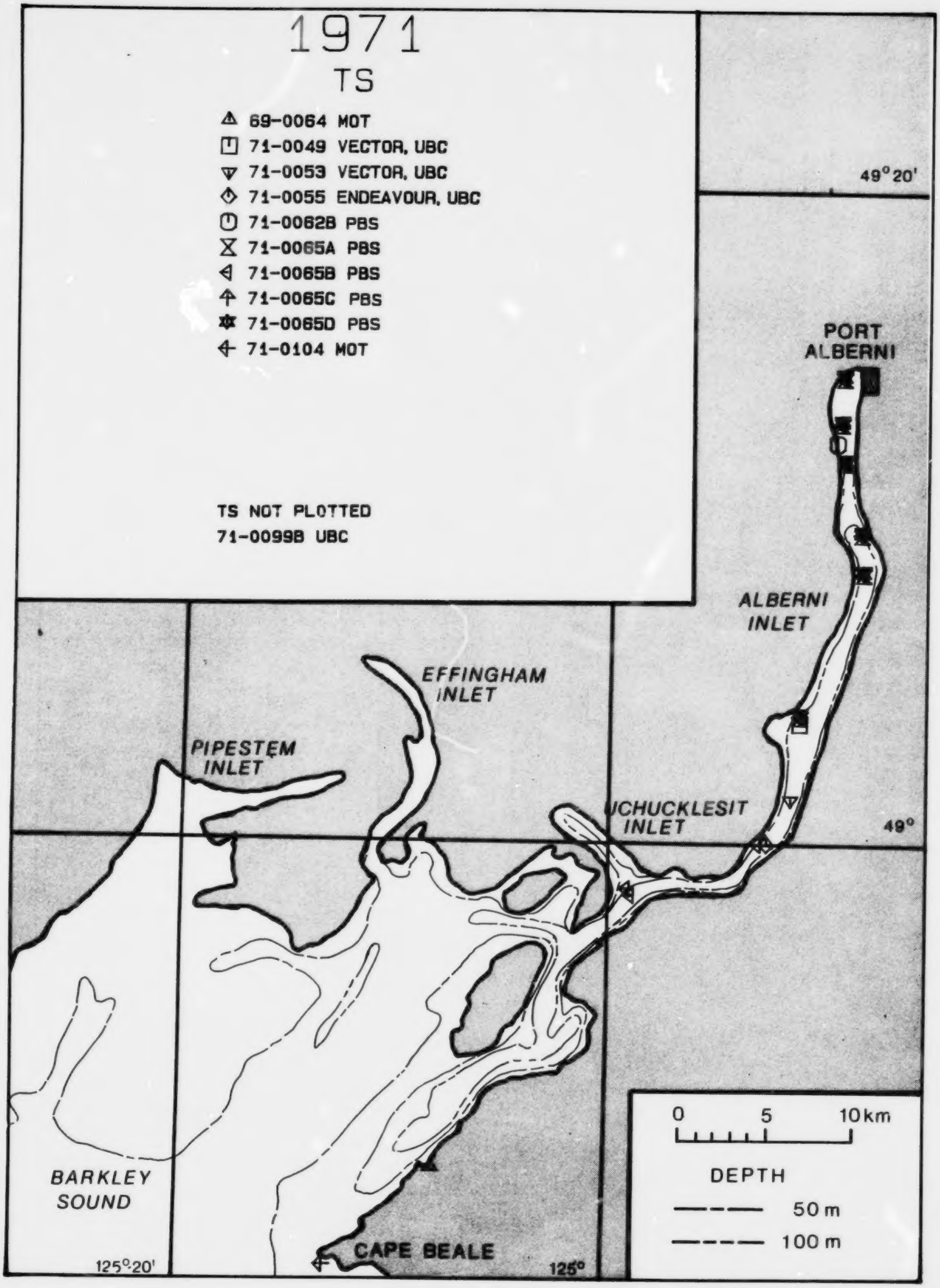

1971
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
69-0064 MOT
71-0049 VECTOR, UBC
71-0050 VECTOR, UBC
71-0053 VECTOR, UBC
71-0055 ENDEAVOUR, UBC
71-0059 VECTOR, UBC
71-0060 G.B. KELEZ (US)
71-0061 OCEANOGRAPHER (US)
71-0062B PBS
71-0065B PBS
71-0065D PBS
71-0097 UTAH MINES
71-0104 MOT
1000 m
2000 m
3000 m
0
100 km
140 0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

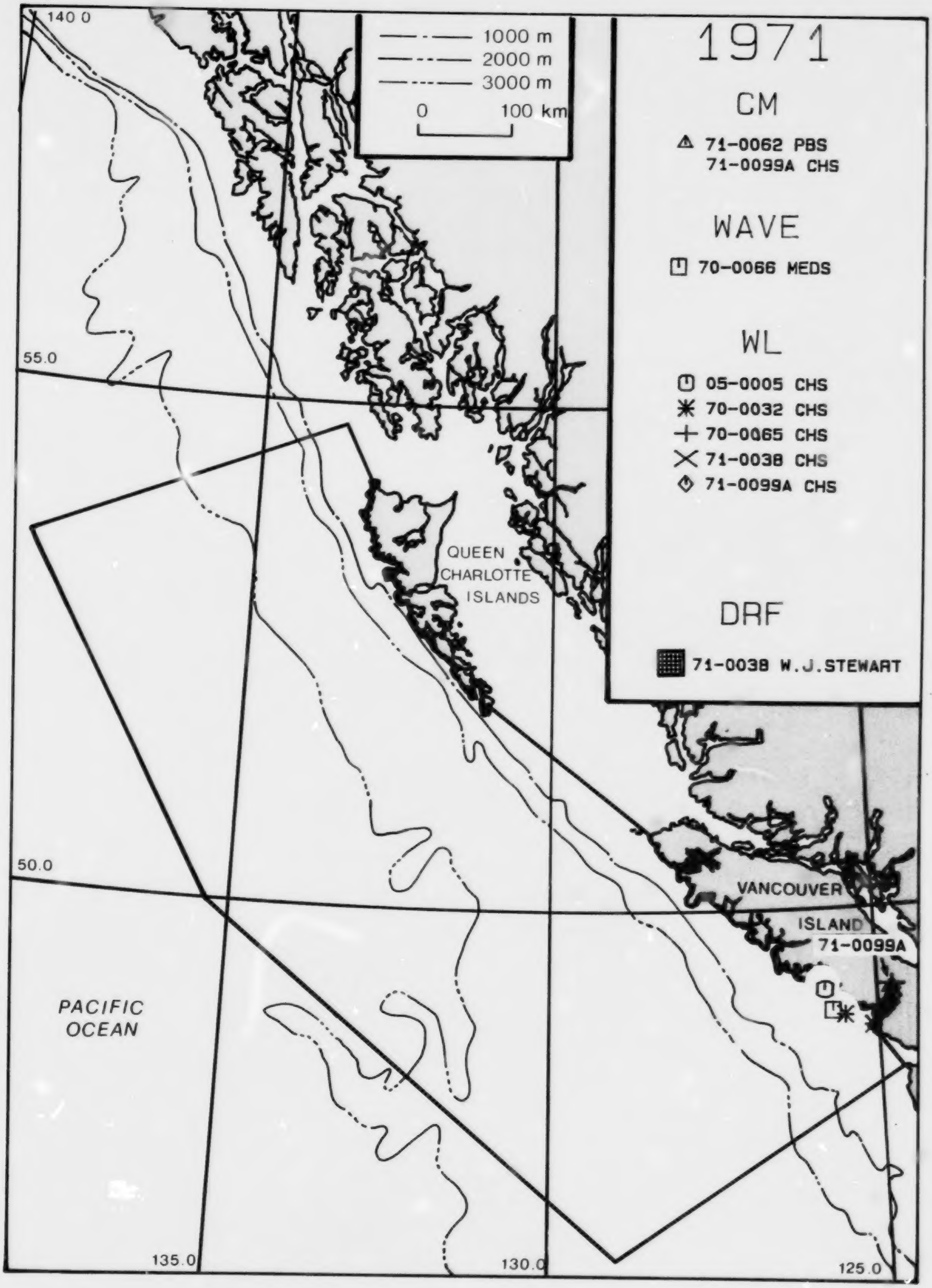

1971
TS
△ 71-0037 ENDEAVOUR, POG
◻ 71-0048 AKADEMIK KOROLEV (USSR)
▽ 71-0051 VECTOR, UBC
◇ 71-0052 AKADEMIK BERG. (USSR)
○ 71-0054 PARIZEAU, UBC
⧗ 71-0056 T.G. THOMPSON, UW
◁ 71-0057 ENDEAVOUR, UBC
↑ 71-0058 T.G. THOMPSON, UW
✱ 71-0065A PBS
← 71-0065C PBS
71-0099B UBC
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
71-0099B
PACIFIC OCEAN

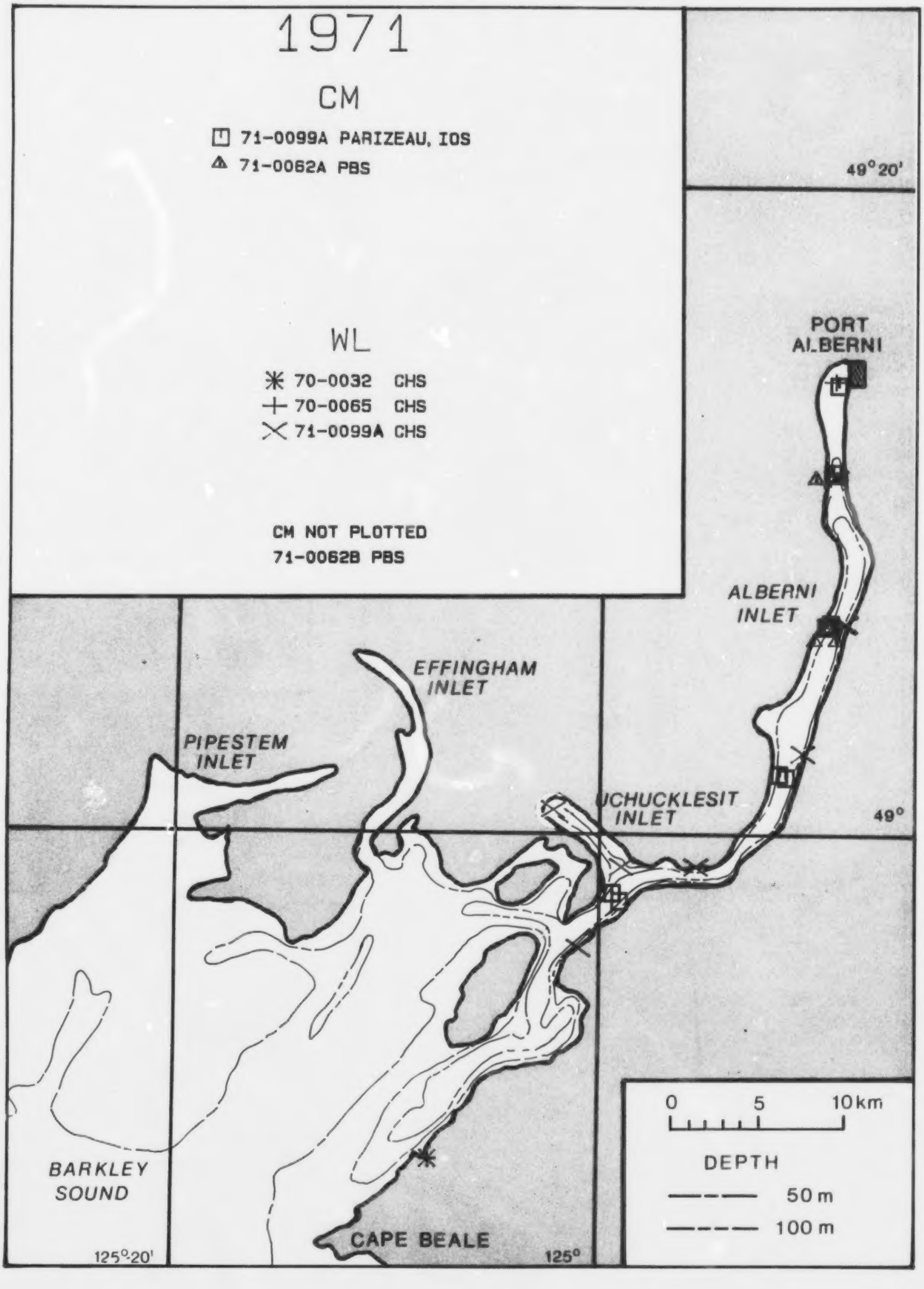

1971
TS
34-0007 MOT
35-0008 MOT
69-0064 MOT
71-0049 VECTOR, UBC
71-0050 VECTOR, UBC
71-0053 VECTOR, UBC
71-0055 ENDEAVOUR, UBC
71-0059 VECTOR, UBC
71-0060 G.B. KELEZ (US)
71-0061 OCEANOGRAPHER (US)
71-0065B PBS
71-0065D PBS
71-0097 UTAH MINES
71-0104 MOT
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
1000
200
2500
2500
50.0N
48.0N
46.0N
129.0W
126.0W

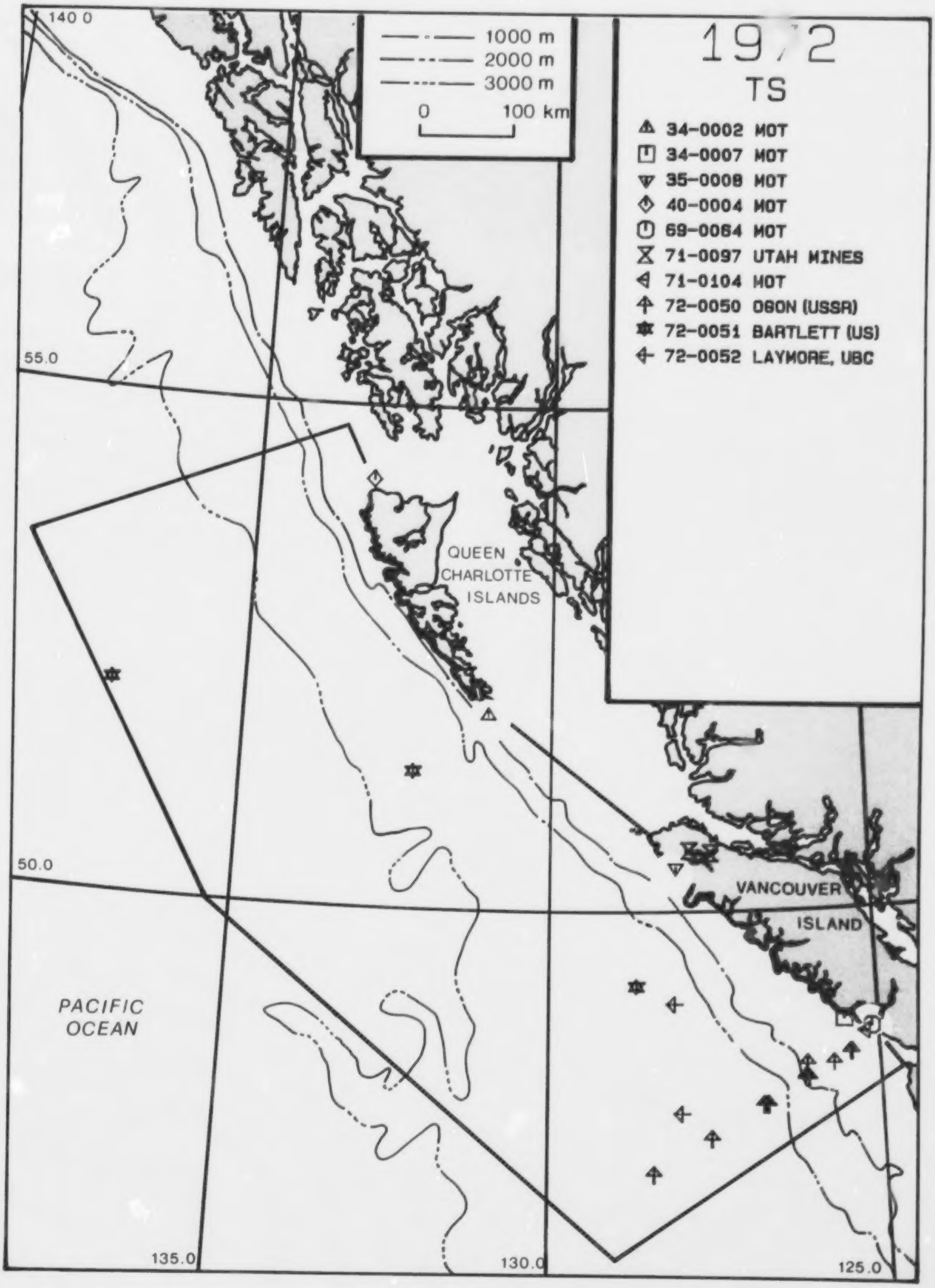

1971
TS
71-0037 ENDEAVOUR, POG
71-0048 AKADEMIK KOROLEV (USSR)
71-0051 VECTOR, UBC
71-0052 AKADEMIK BERG (USSR)
71-0056 T.G. THOMPSON, UW
71-0057 ENDEAVOUR, UBC
71-0058 T.G. THOMPSON, UW
71-0065A PBS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
2500
2500
2500
1000
200

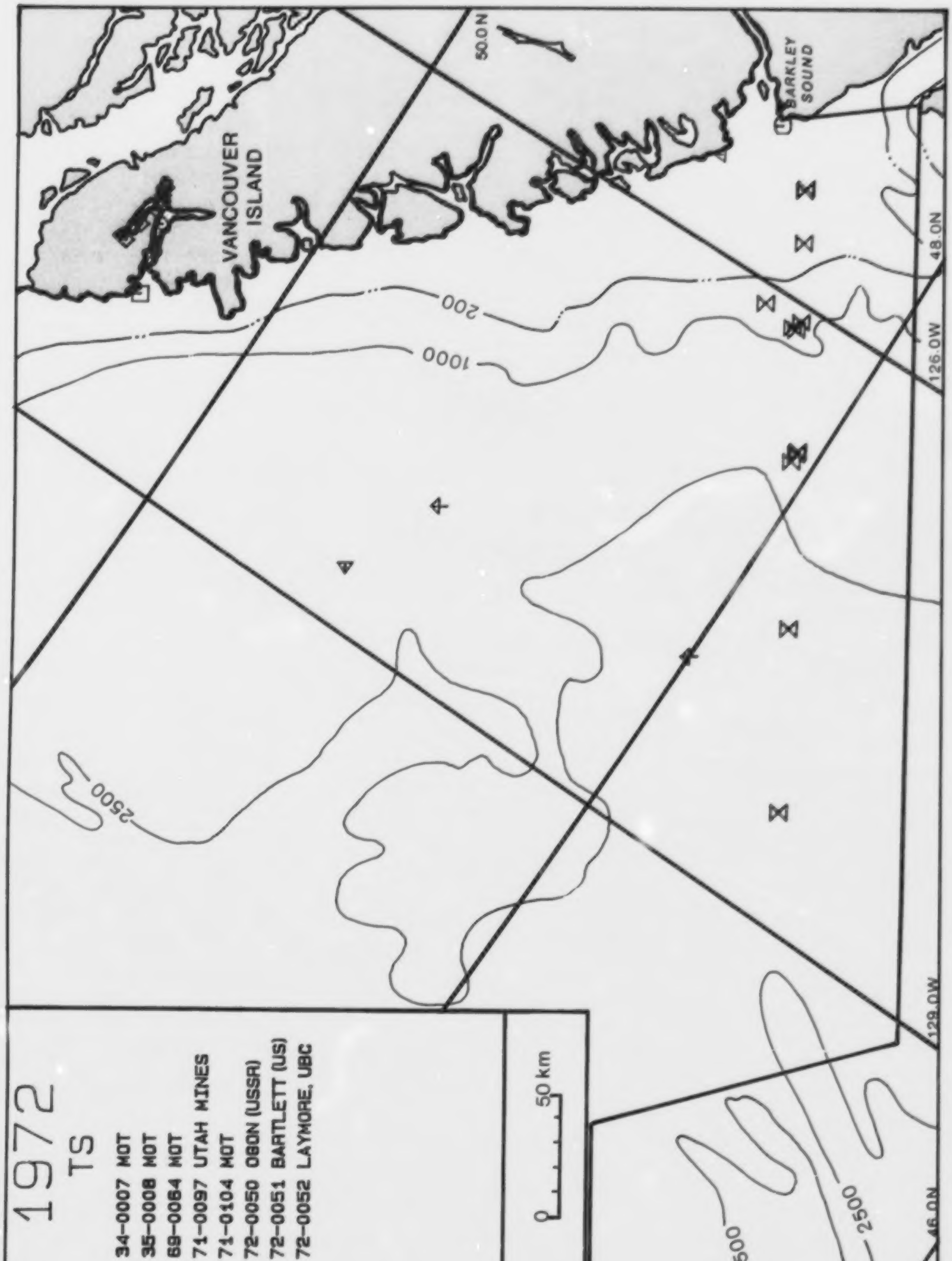

DEPTH
0
5
10km
100m
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
127°30'
128°
1971
TS
△ 35-0008 MOT
☐ 71-0050 VECTOR, UBC
▽ 71-0051 VECTOR, UBC
◇ 71-0057 ENDEAVOUR, UBC
◯ 71-0097 UTAH MINES

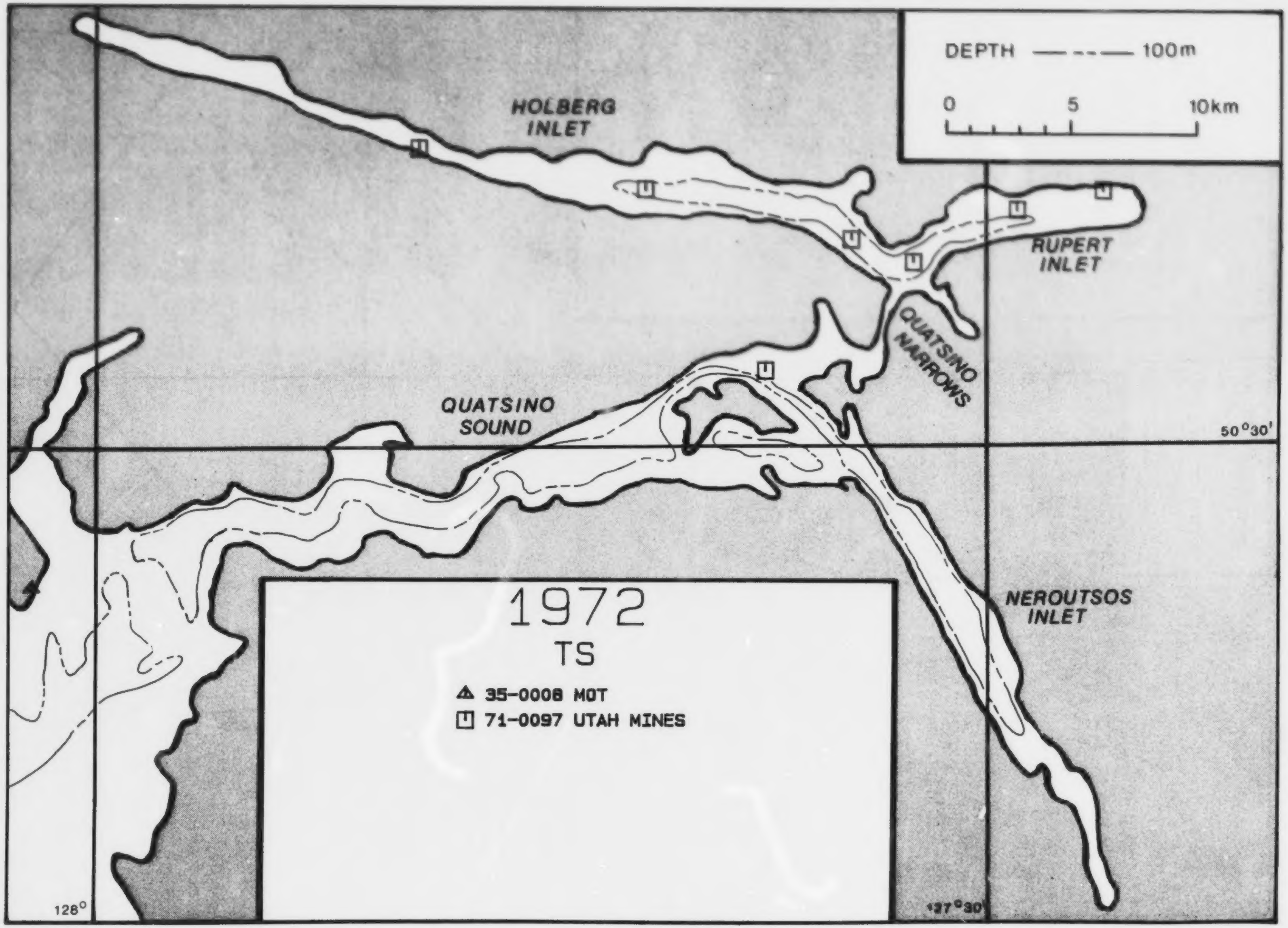

1971
TS
△ 69-0064 MOT
☐ 71-0049 VECTOR, UBC
▽ 71-0053 VECTOR, UBC
◇ 71-0055 ENDEAVOUR, UBC
○ 71-0062B PBS
⧗ 71-0065A PBS
◁ 71-0065B PBS
↑ 71-0065C PBS
✡ 71-0065D PBS
← 71-0104 MOT
TS NOT PLOTTED
71-0099B UBC
PORT ALBERNI
49° 20'
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

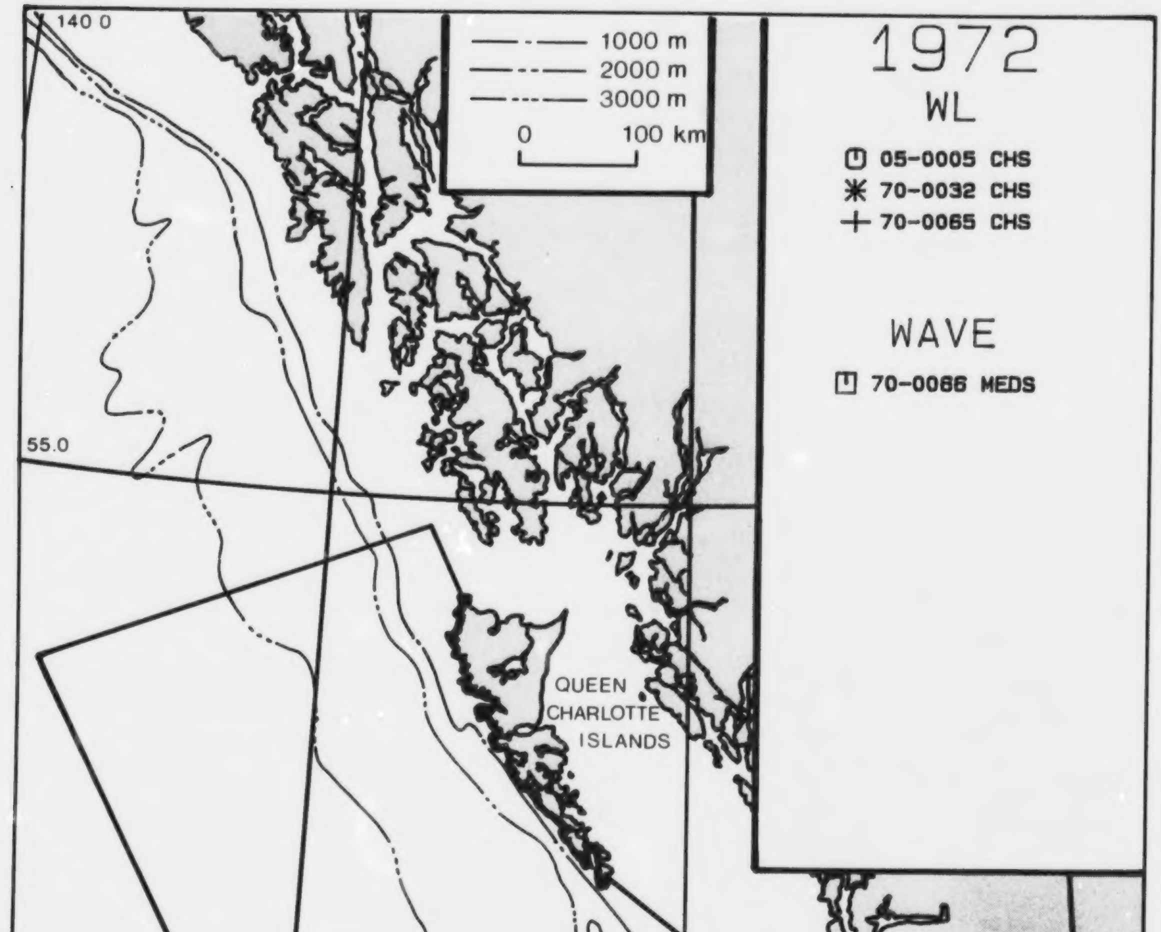

1000 m
2000 m
3000 m
0
100 km
1971
CM
⚠ 71-0062 PBS
71-0099A CHS
WAVE
⊡ 70-0066 MEDS
WL
⊕ 05-0005 CHS
✳ 70-0032 CHS
+ 70-0065 CHS
✕ 71-0038 CHS
◇ 71-0099A CHS
DRF
▦ 71-0038 W.J.STEWART
140 0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
71-0099A
PACIFIC
OCEAN

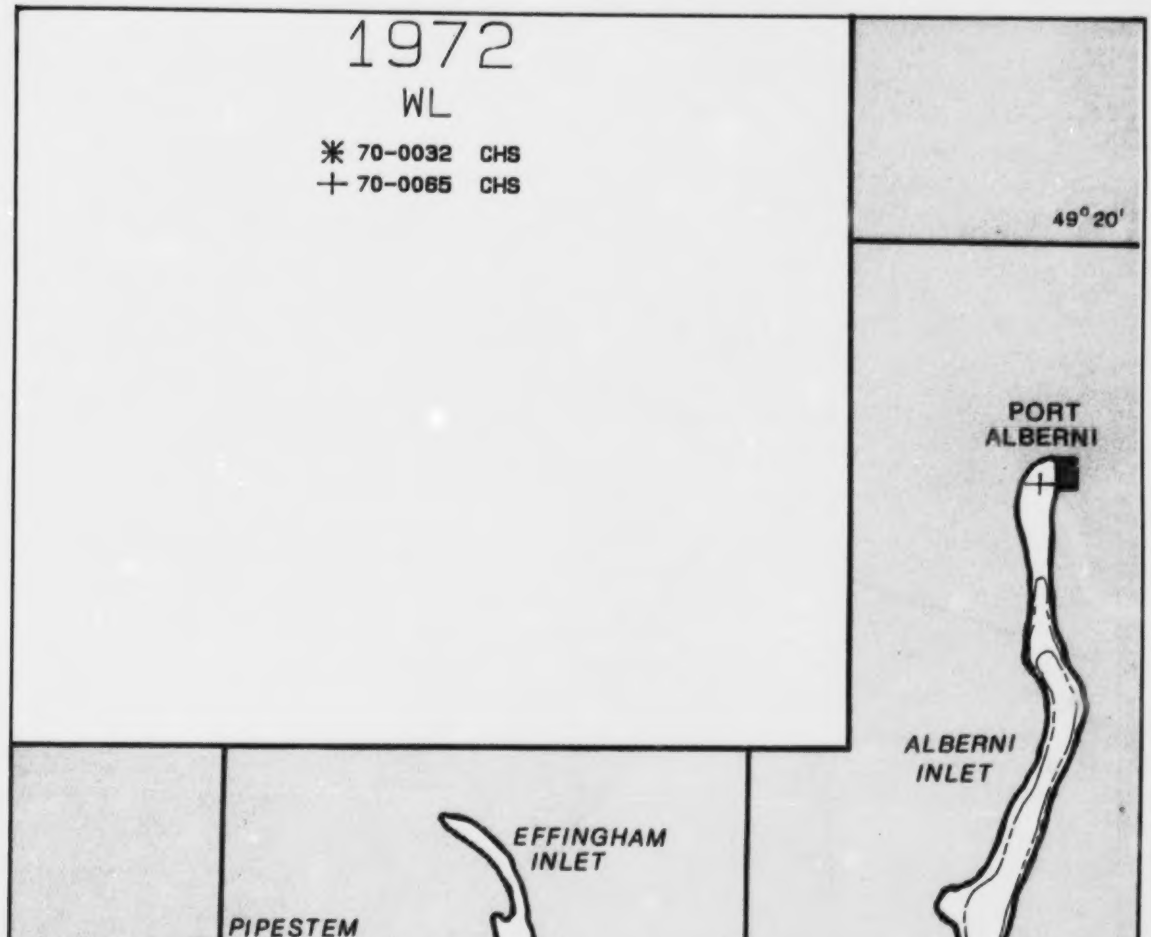

1971
CM
□ 71-0099A PARIZEAU, IOS
▲ 71-0062A PBS
WL
✳ 70-0032 CHS
+ 70-0065 CHS
✕ 71-0099A CHS
CM NOT PLOTTED
71-0062B PBS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

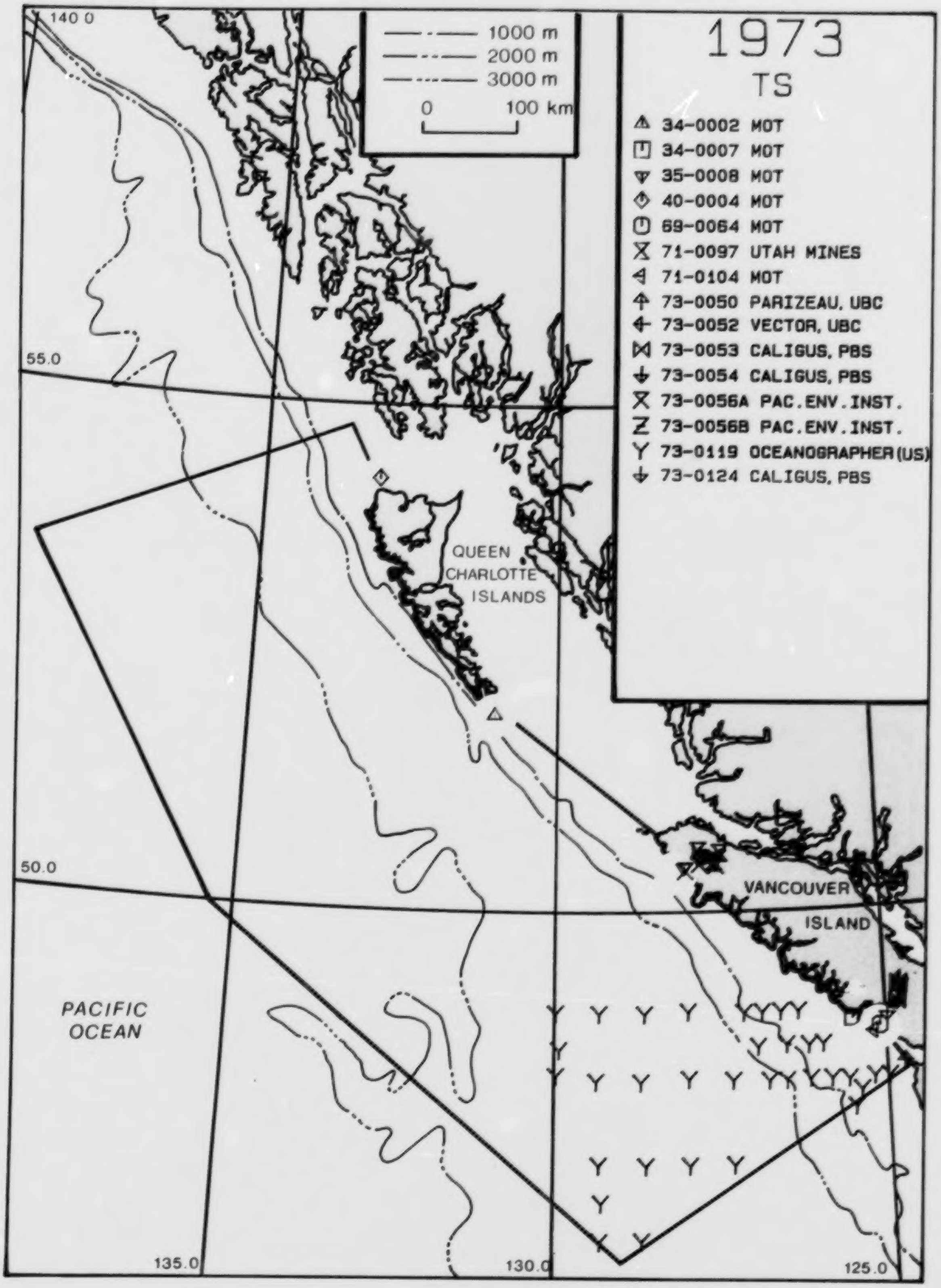

1972
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
69-0064 MOT
71-0097 UTAH MINES
71-0104 MOT
72-0050 OBON (USSR)
72-0051 BARTLETT (US)
72-0052 LAYMORE, UBC
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

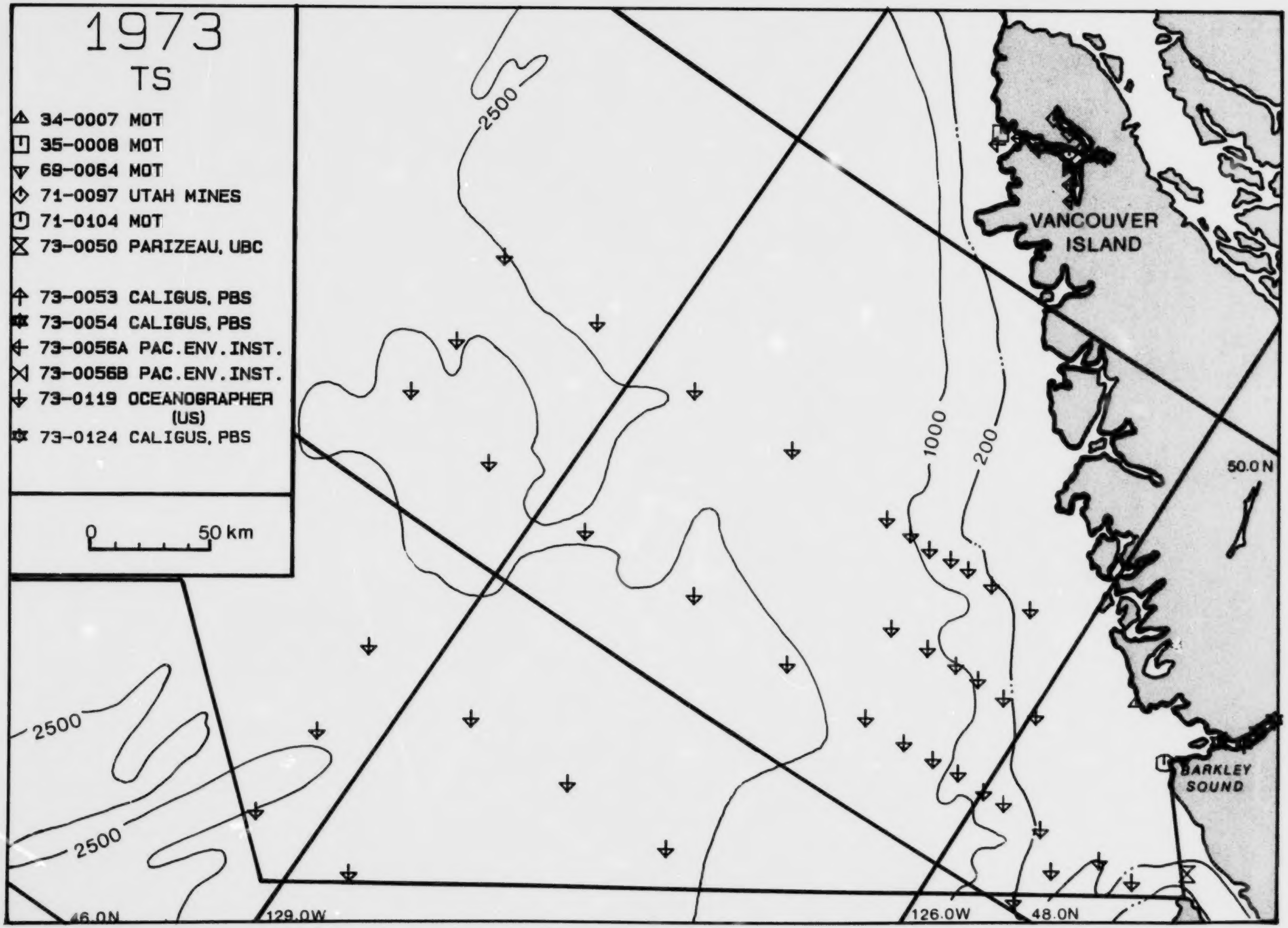

1972
TS
34-0007 MOT
35-0008 MOT
69-0064 MOT
71-0097 UTAH MINES
71-0104 MOT
72-0050 OBON (USSR)
72-0051 BARTLETT (US)
72-0052 LAYMORE, UBC
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

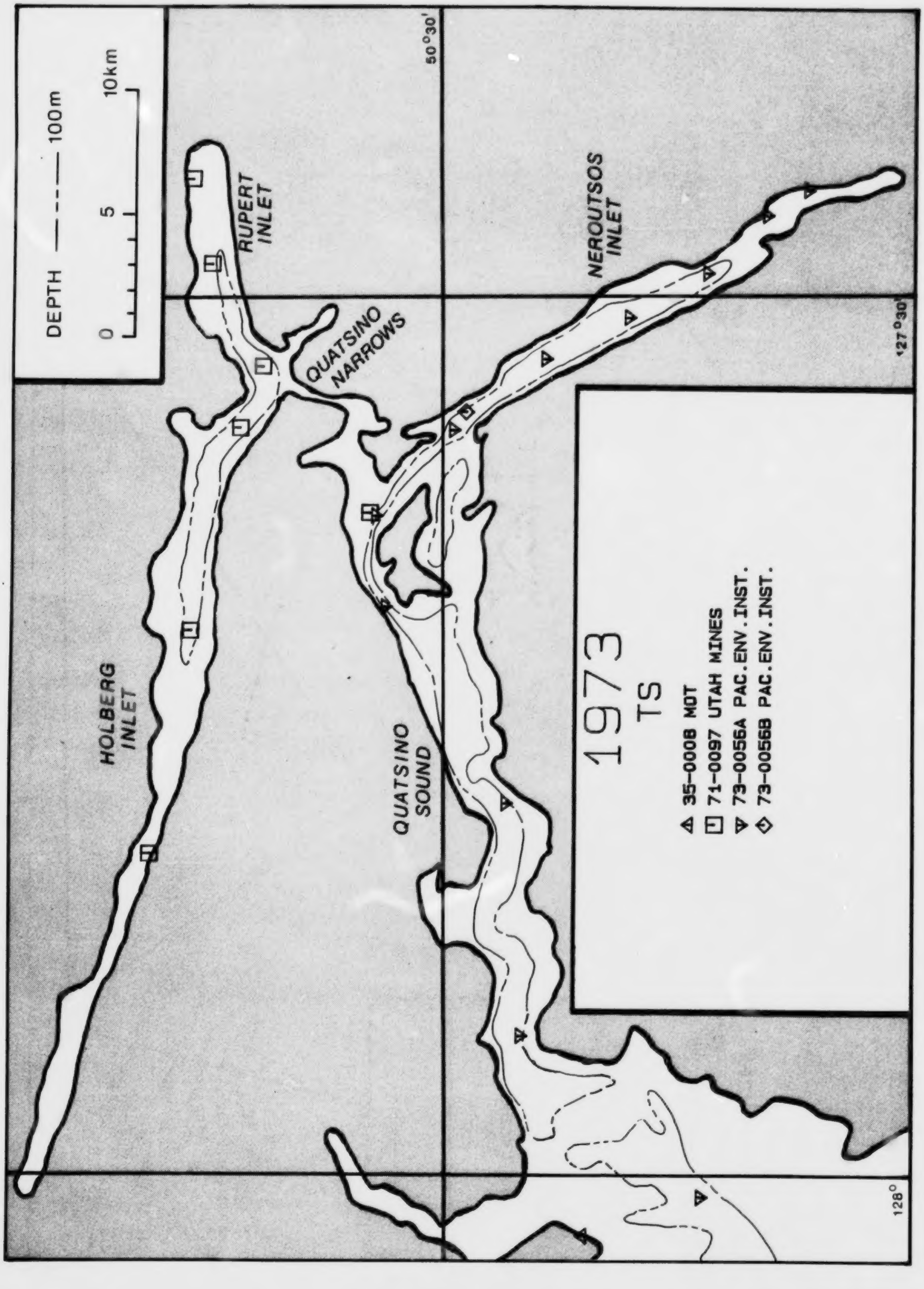

DEPTH ——-·-—— 100m
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
128°
127°30'
1972
TS
▲ 35-0008 MOT
☐ 71-0097 UTAH MINES

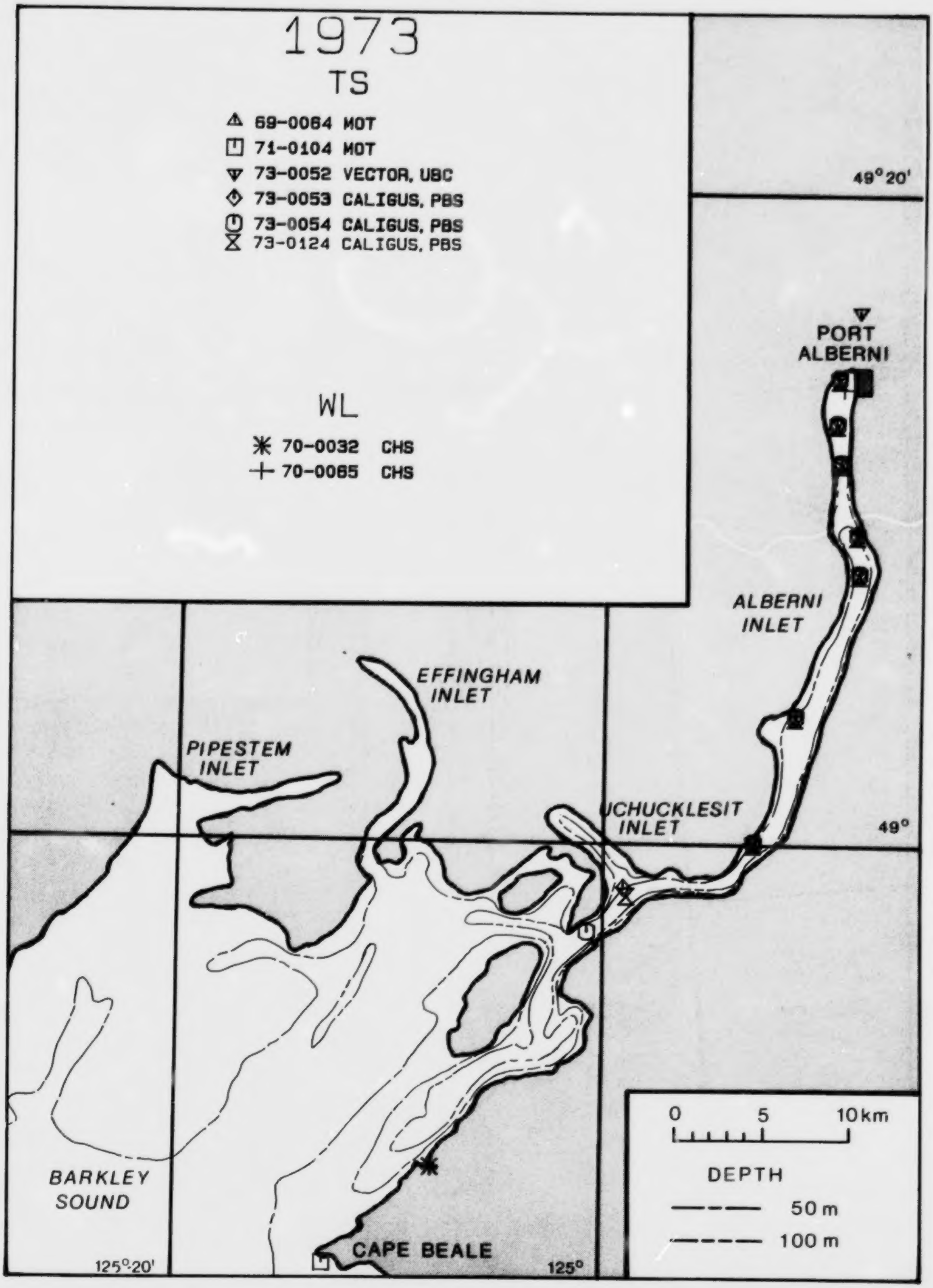

1000 m
2000 m
3000 m
0
100 km
1972
WL
05-0005 CHS
70-0032 CHS
70-0065 CHS
WAVE
70-0066 MEDS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

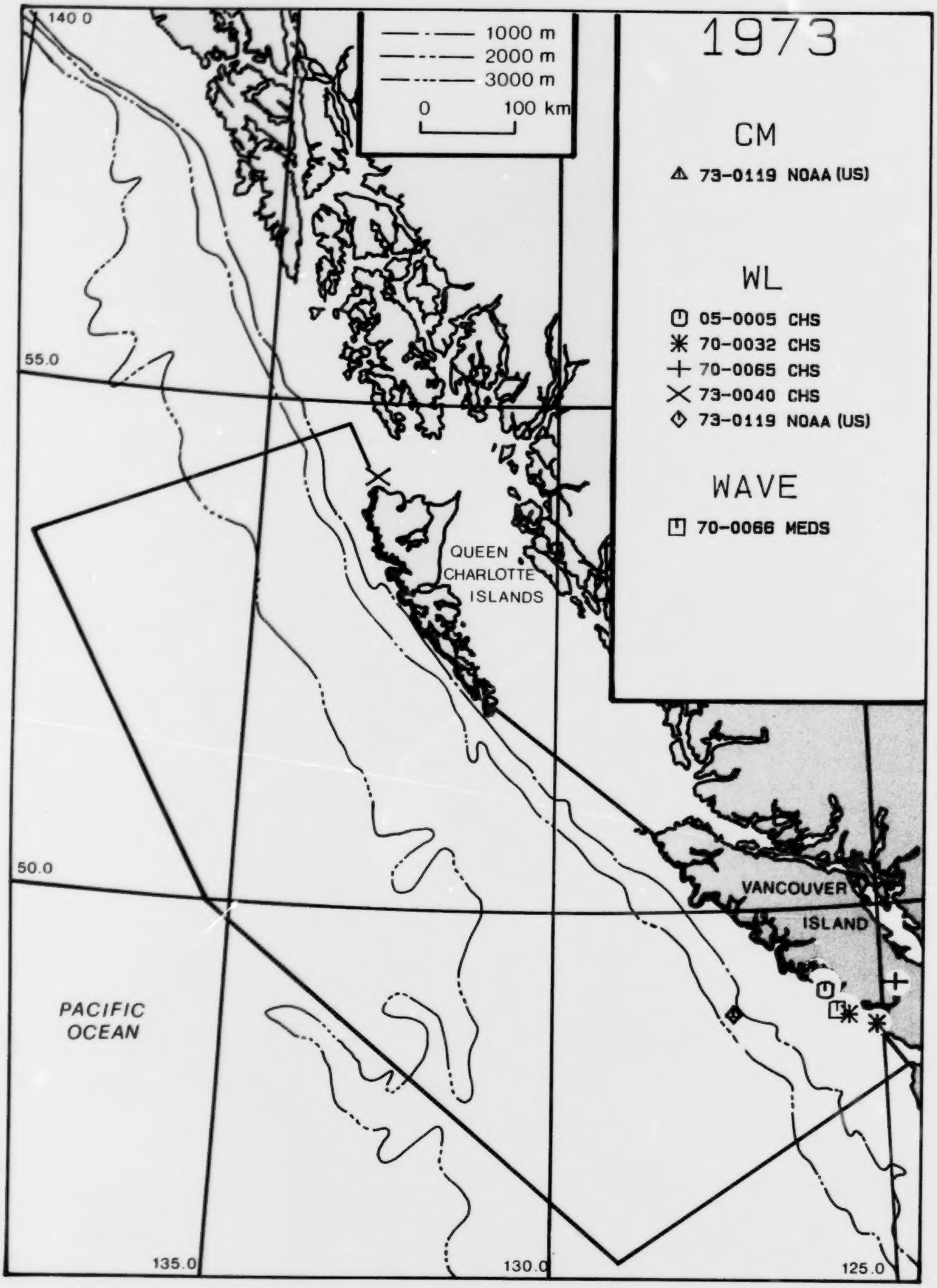

1972
WL
✳ 70-0032 CHS
+ 70-0065 CHS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

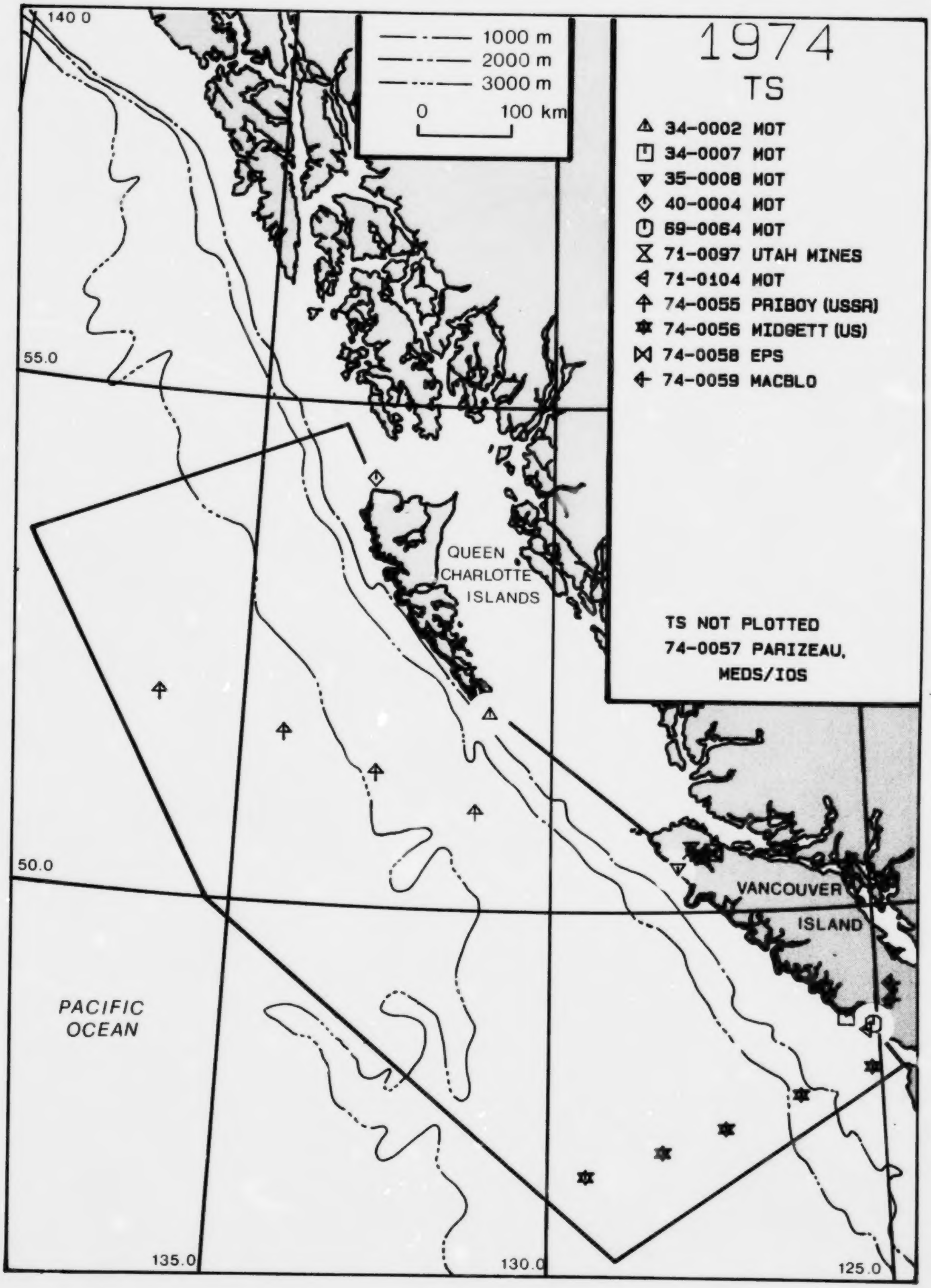

140 0
1000 m
2000 m
3000 m
0
100 km
1973
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
69-0064 MOT
71-0097 UTAH MINES
71-0104 MOT
73-0050 PARIZEAU, UBC
73-0052 VECTOR, UBC
73-0053 CALIGUS, PBS
73-0054 CALIGUS, PBS
73-0056A PAC.ENV.INST.
73-0056B PAC.ENV.INST.
73-0119 OCEANOGRAPHER(US)
73-0124 CALIGUS, PBS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

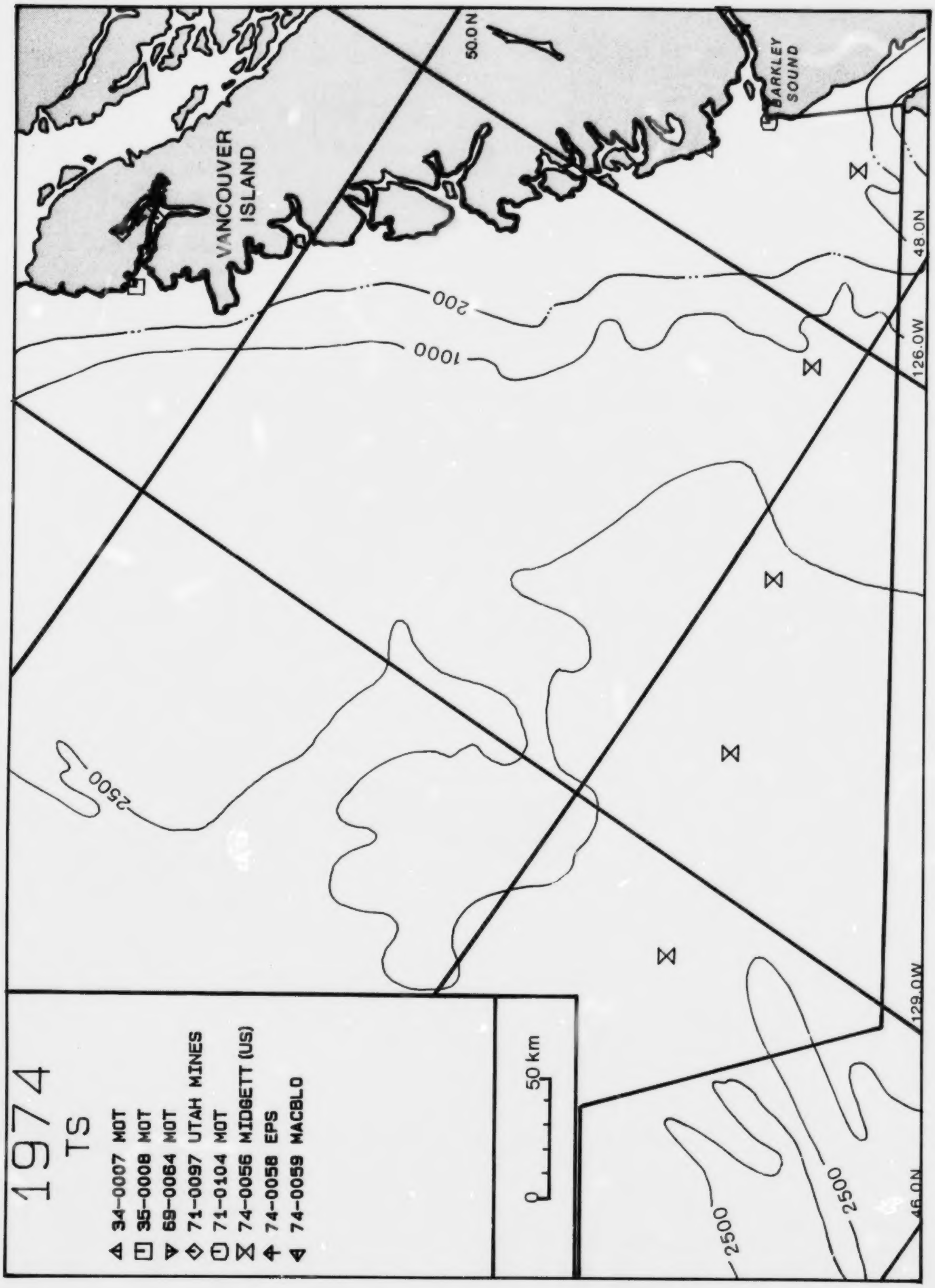

1973
TS
34-0007 MOT
35-0008 MOT
69-0064 MOT
71-0097 UTAH MINES
71-0104 MOT
73-0050 PARIZEAU, UBC
73-0053 CALIGUS, PBS
73-0054 CALIGUS, PBS
73-0056A PAC.ENV.INST.
73-0056B PAC.ENV.INST.
73-0119 OCEANOGRAPHER (US)
73-0124 CALIGUS, PBS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
129.0W
126.0W
2500
1000
200
2500
2500

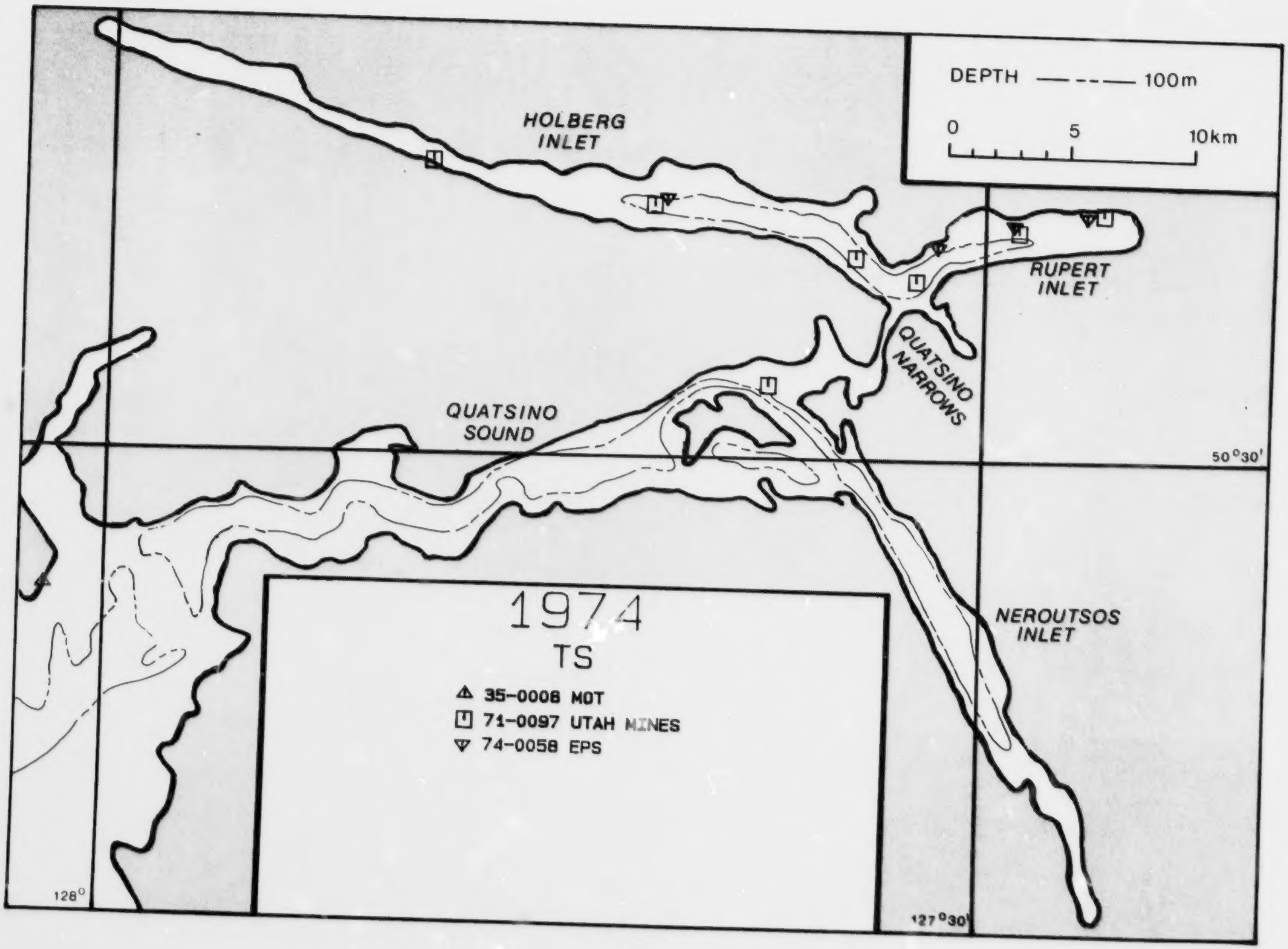

DEPTH ——— - - - ——— 100m
0
5
10km
50°30'
127°30'
128°
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
1973
TS
△ 35-0008 MOT
□ 71-0097 UTAH MINES
▽ 73-0056A PAC.ENV.INST.
◇ 73-0056B PAC.ENV.INST.

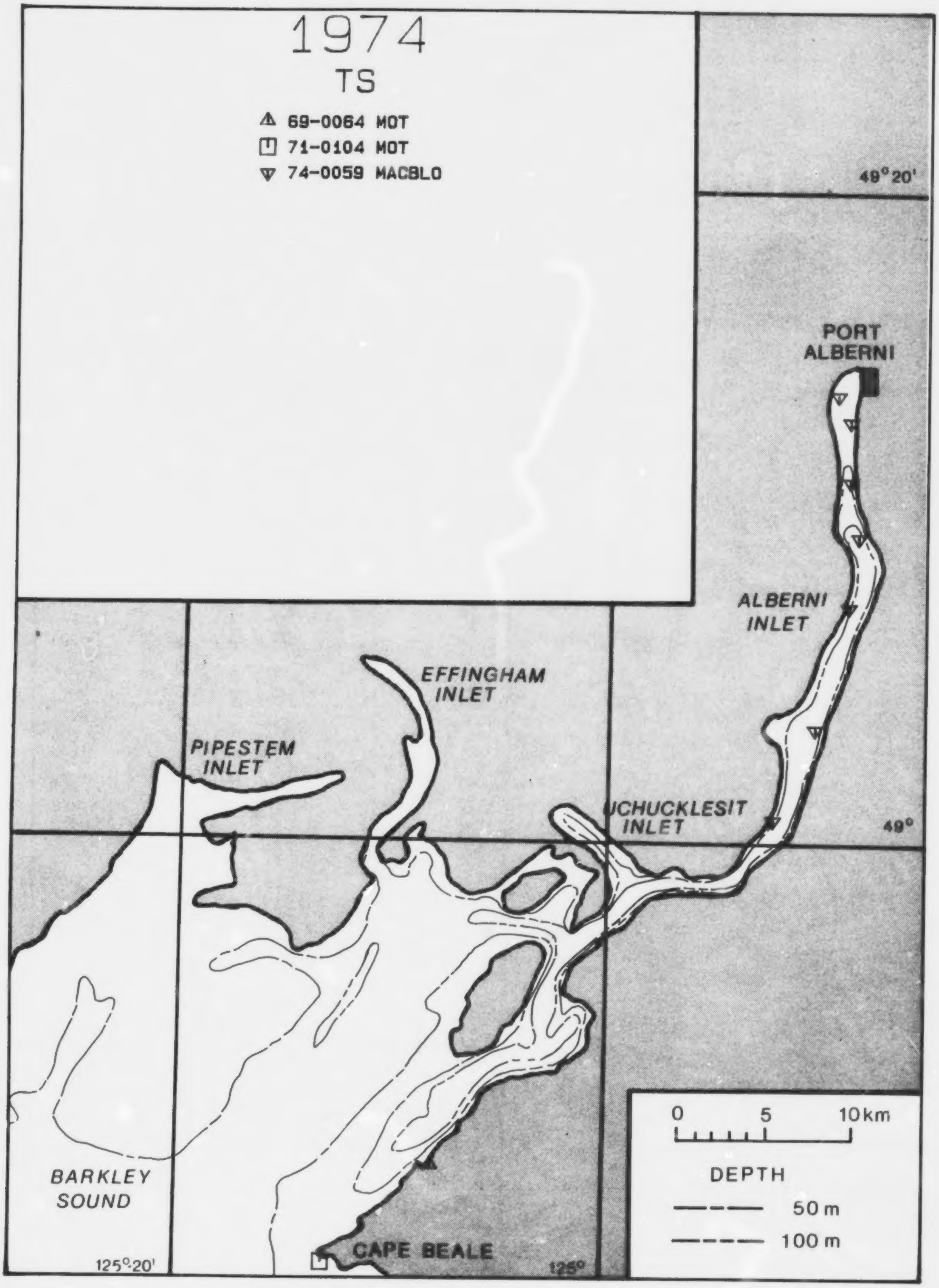

1973
TS
△ 69-0064 MOT
□ 71-0104 MOT
▽ 73-0052 VECTOR, UBC
◇ 73-0053 CALIGUS, PBS
○ 73-0054 CALIGUS, PBS
⧖ 73-0124 CALIGUS, PBS
WL
✳ 70-0032 CHS
+ 70-0065 CHS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

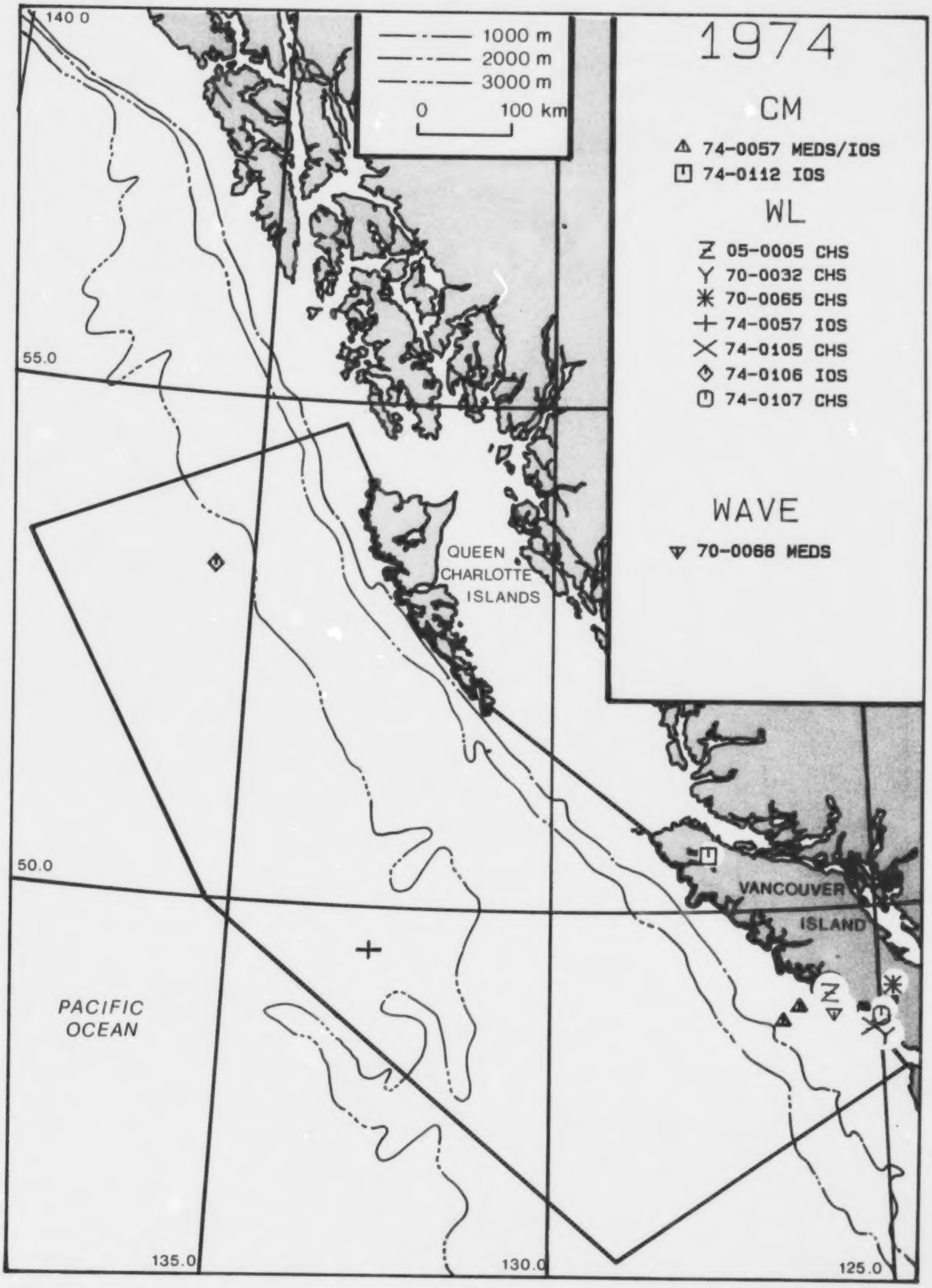

140.0
1000 m
2000 m
3000 m
0
100 km
1973
CM
⚠ 73-0119 NOAA (US)
WL
05-0005 CHS
✳ 70-0032 CHS
+ 70-0065 CHS
✕ 73-0040 CHS
◇ 73-0119 NOAA (US)
WAVE
70-0066 MEDS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

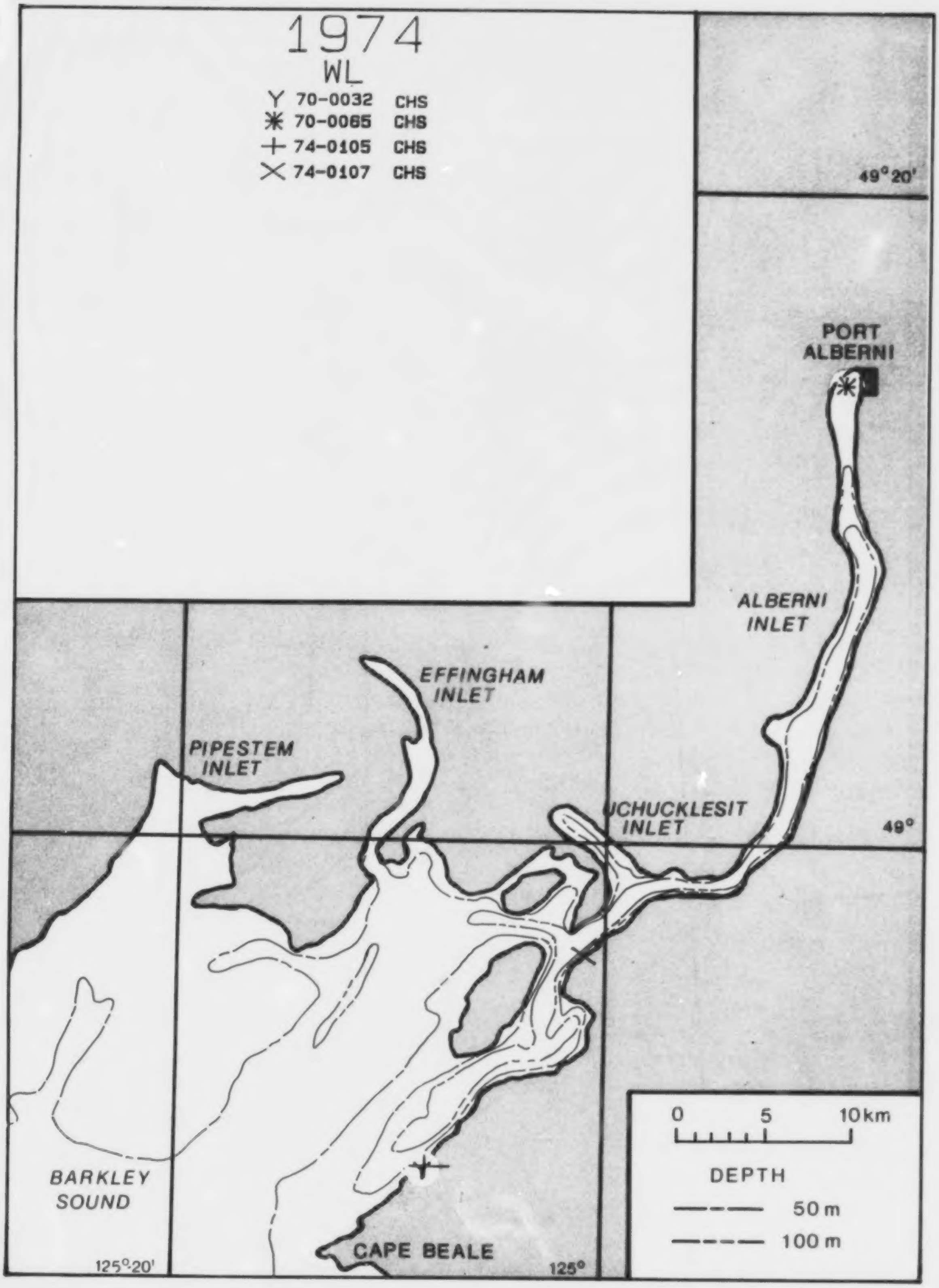

1974
TS
△ 34-0002 MOT
☐ 34-0007 MOT
▽ 35-0008 MOT
◇ 40-0004 MOT
○ 69-0064 MOT
⧗ 71-0097 UTAH MINES
◁ 71-0104 MOT
↑ 74-0055 PRIBOY (USSR)
✱ 74-0056 MIDGETT (US)
⋈ 74-0058 EPS
← 74-0059 MACBLO
TS NOT PLOTTED
74-0057 PARIZEAU,
MEDS/IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

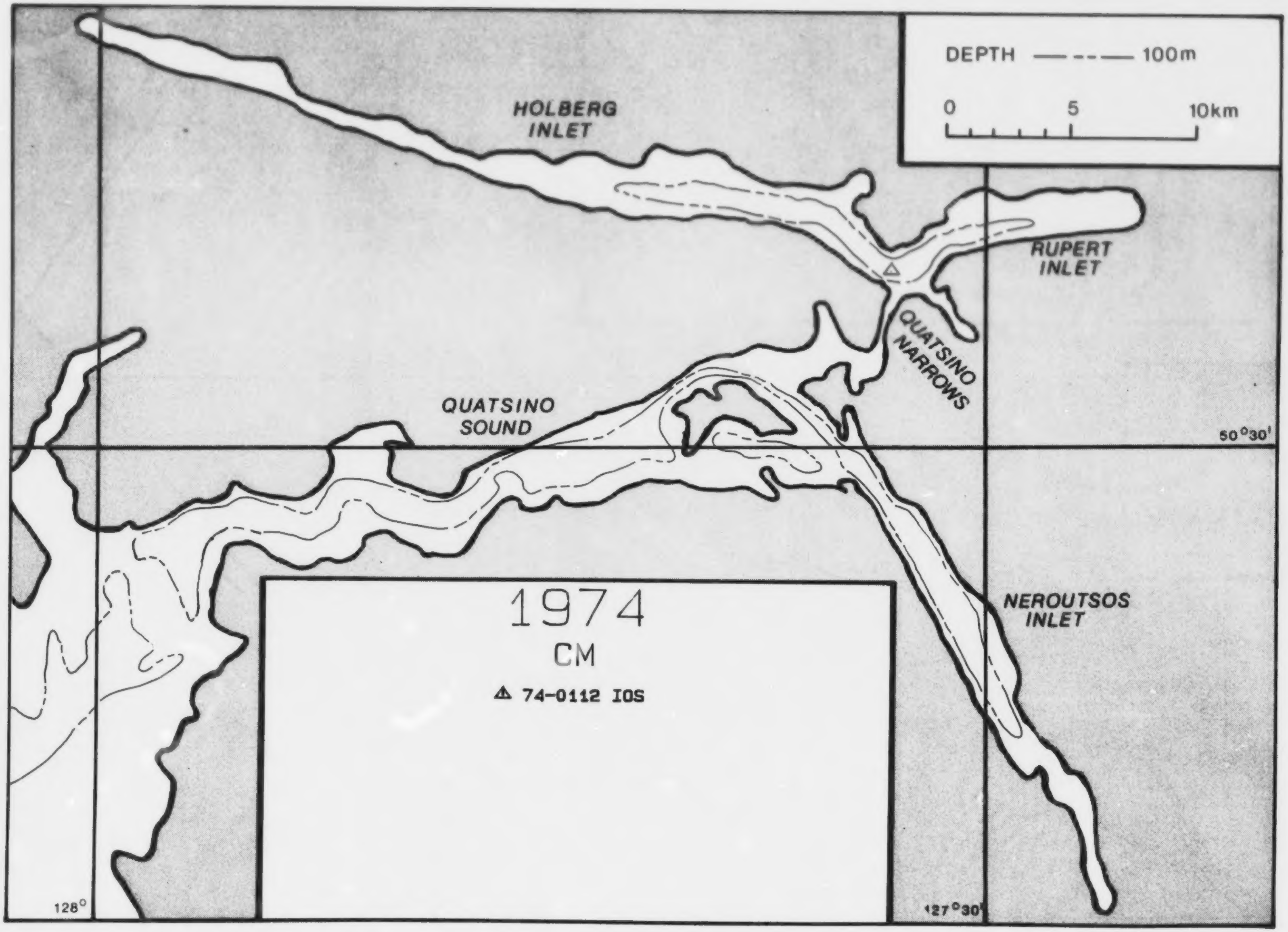

1974
TS
△ 34-0007 MOT
⊡ 35-0008 MOT
▽ 69-0064 MOT
◇ 71-0097 UTAH MINES
⊡ 71-0104 MOT
⧖ 74-0056 MIDGETT (US)
↑ 74-0058 EPS
◁ 74-0059 MACBLO
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

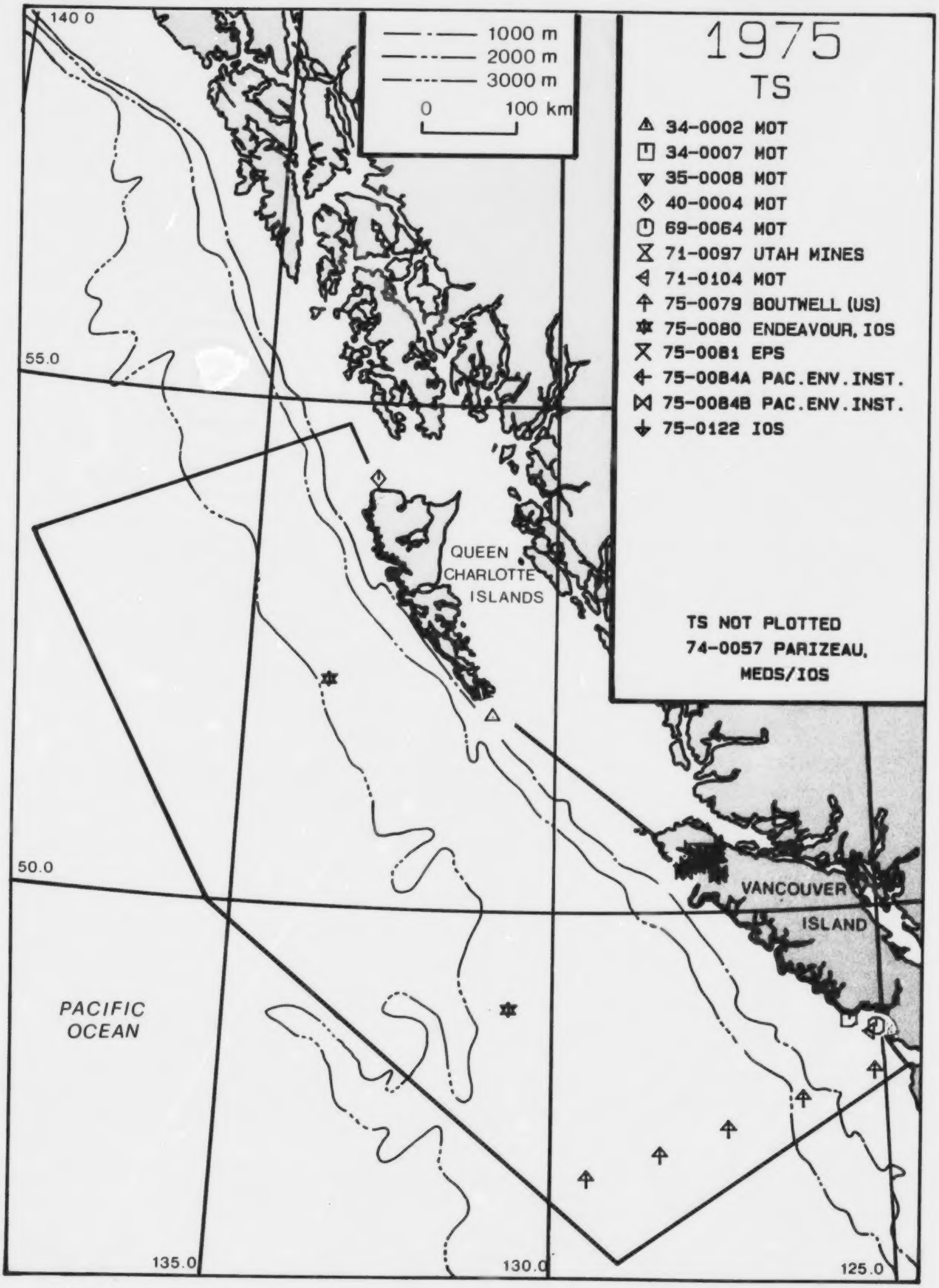

HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
DEPTH 100m
0
5
10km
50°30'
128°
127°30'
1974
TS
△ 35-0008 MOT
☐ 71-0097 UTAH MINES
▽ 74-0058 EPS

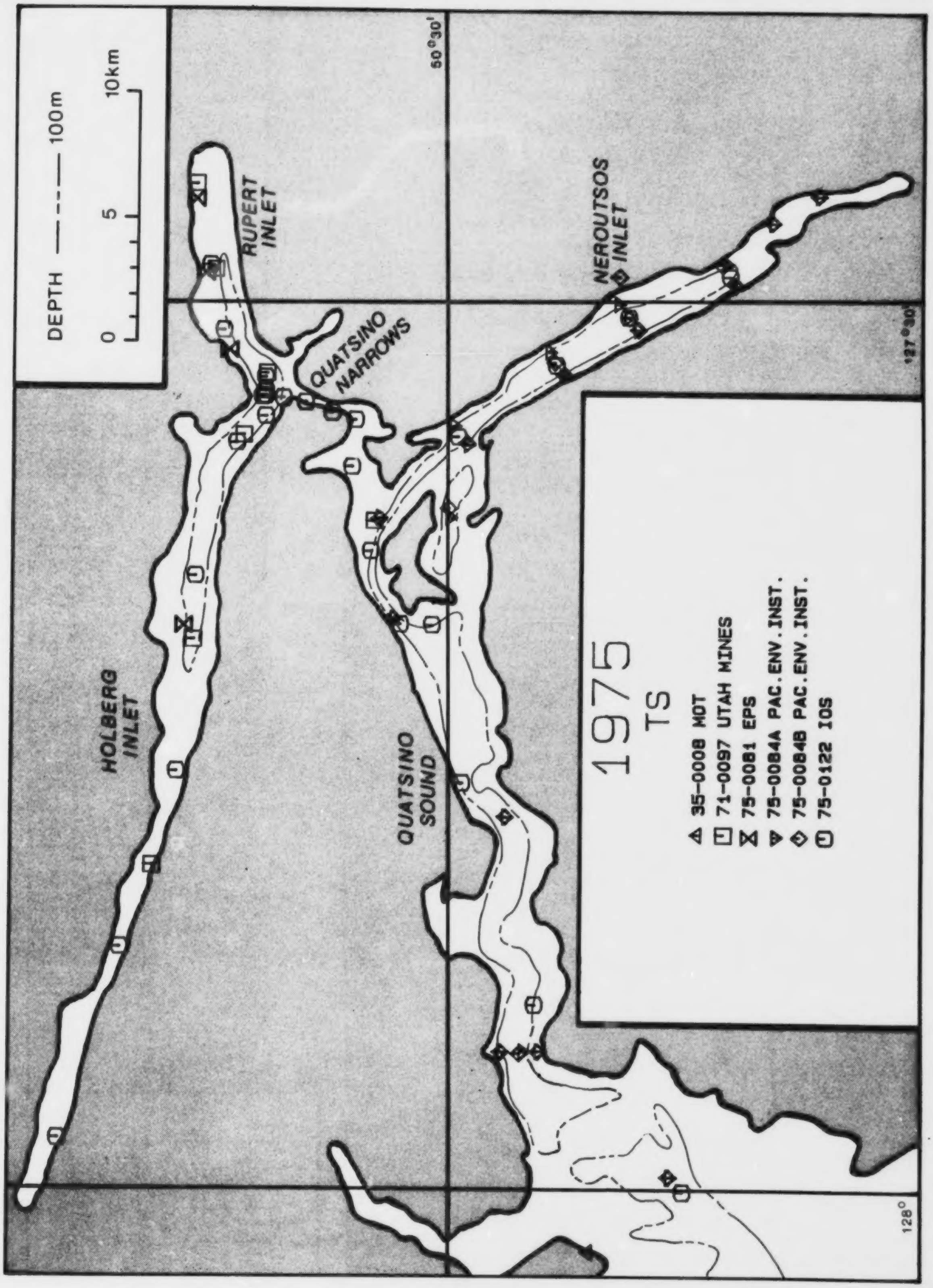

1974
TS
⚠ 69-0064 MOT
☐ 71-0104 MOT
▽ 74-0059 MACBLO
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

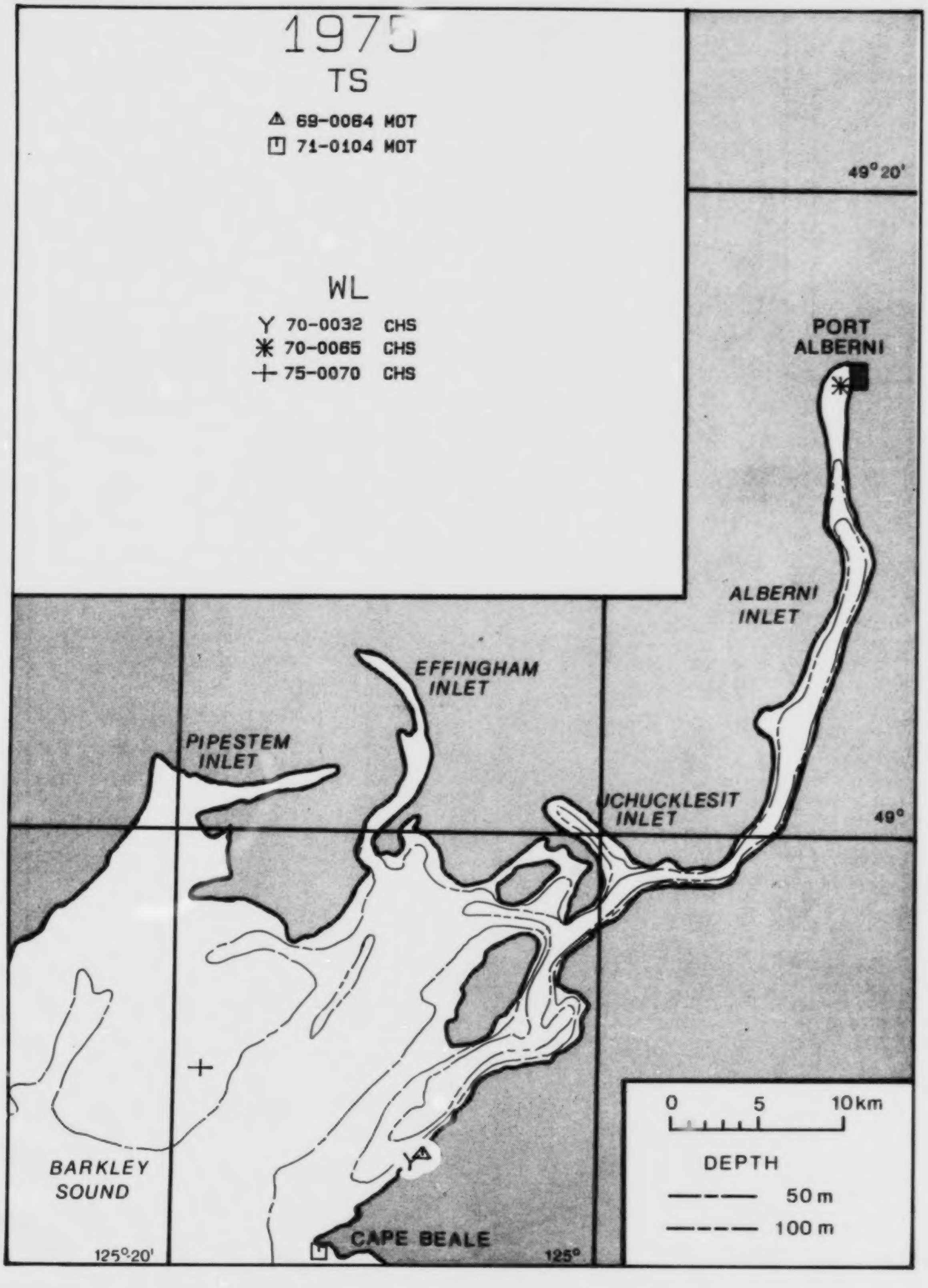

1000 m
2000 m
3000 m
0
100 km
1974
CM
△ 74-0057 MEDS/IOS
⊡ 74-0112 IOS
WL
Ƶ 05-0005 CHS
Y 70-0032 CHS
✳ 70-0065 CHS
+ 74-0057 IOS
✕ 74-0105 CHS
◇ 74-0106 IOS
⊡ 74-0107 CHS
WAVE
▽ 70-0066 MEDS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

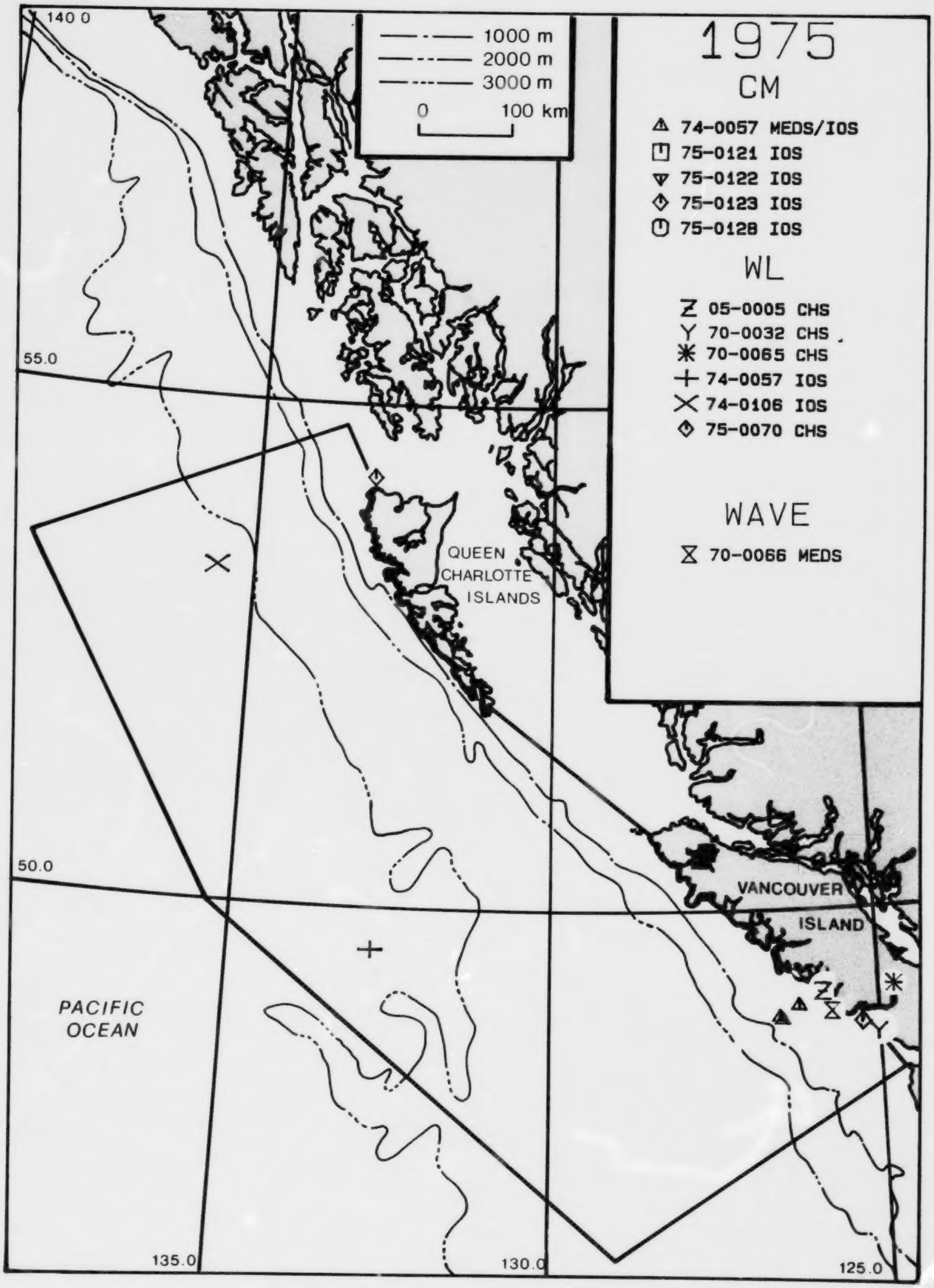

1974
WL
Y 70-0032 CHS
✳ 70-0065 CHS
+ 74-0105 CHS
× 74-0107 CHS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

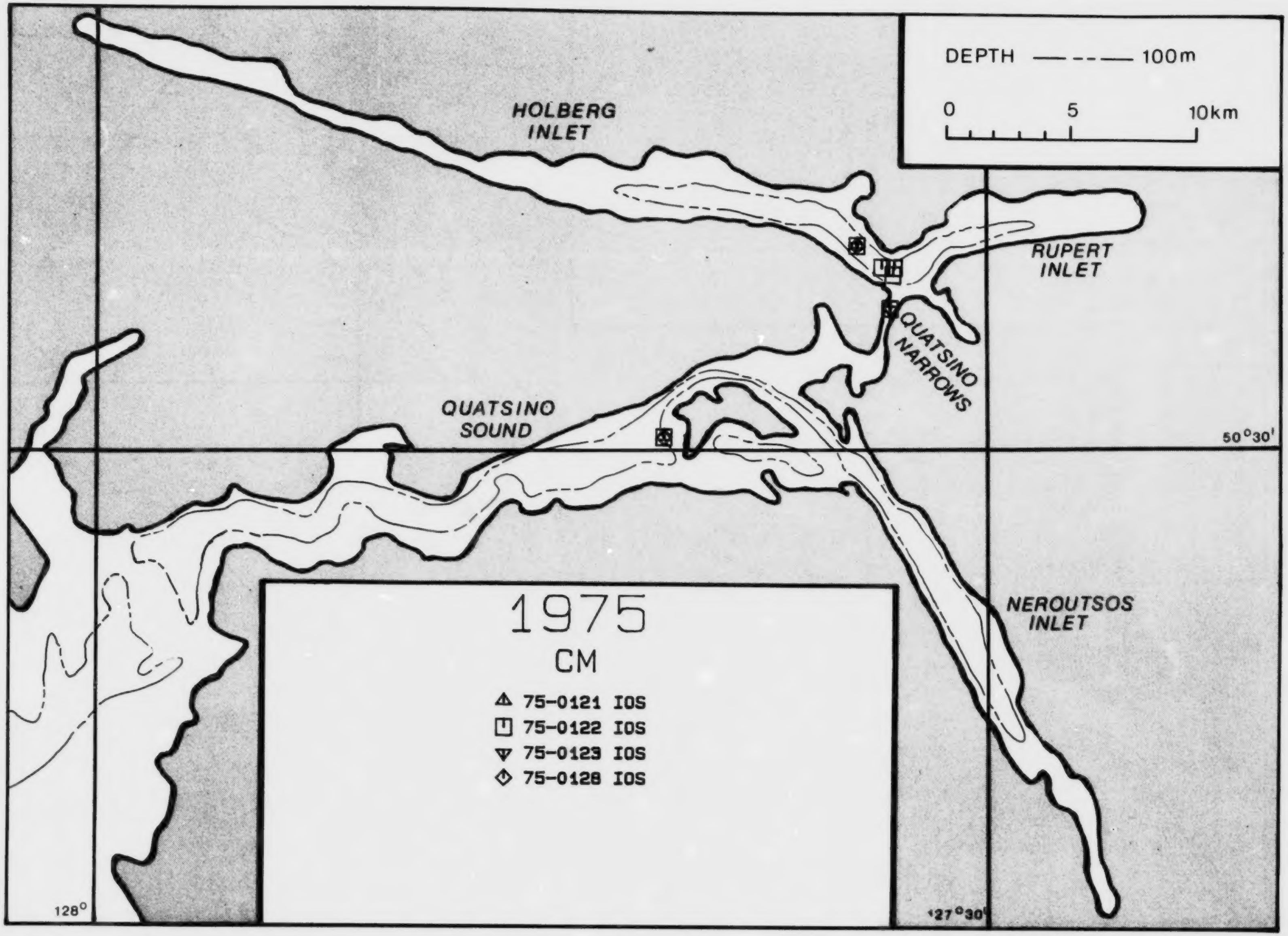

DEPTH —-—-— 100m
0 5 10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
128°
127°30'
1974
CM
△ 74-0112 IOS

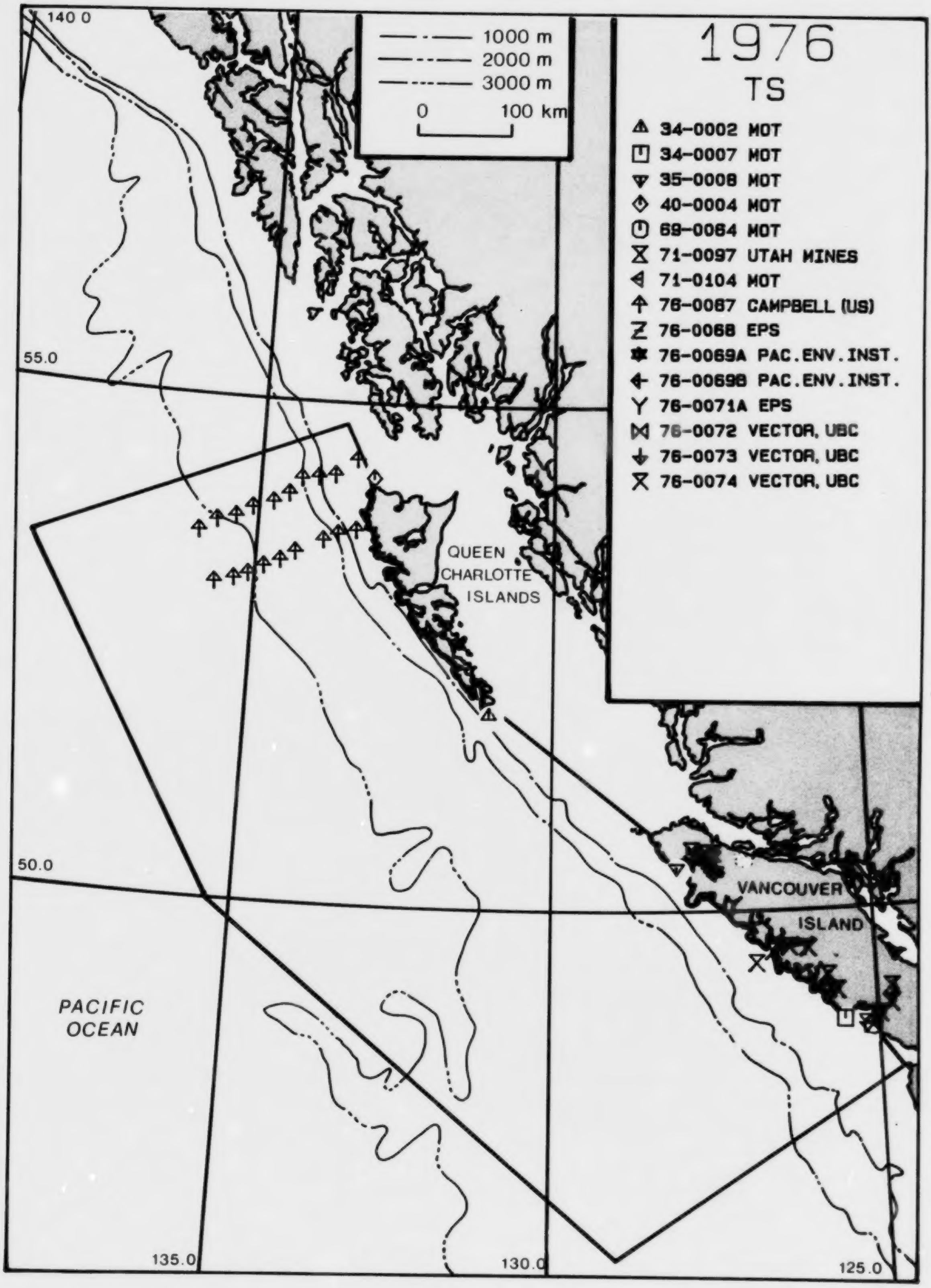

140 0
1000 m
2000 m
3000 m
0
100 km
1975
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
69-0064 MOT
71-0097 UTAH MINES
71-0104 MOT
75-0079 BOUTWELL (US)
75-0080 ENDEAVOUR, IOS
75-0081 EPS
75-0084A PAC.ENV.INST.
75-0084B PAC.ENV.INST.
75-0122 IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
TS NOT PLOTTED
74-0057 PARIZEAU,
MEDS/IOS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

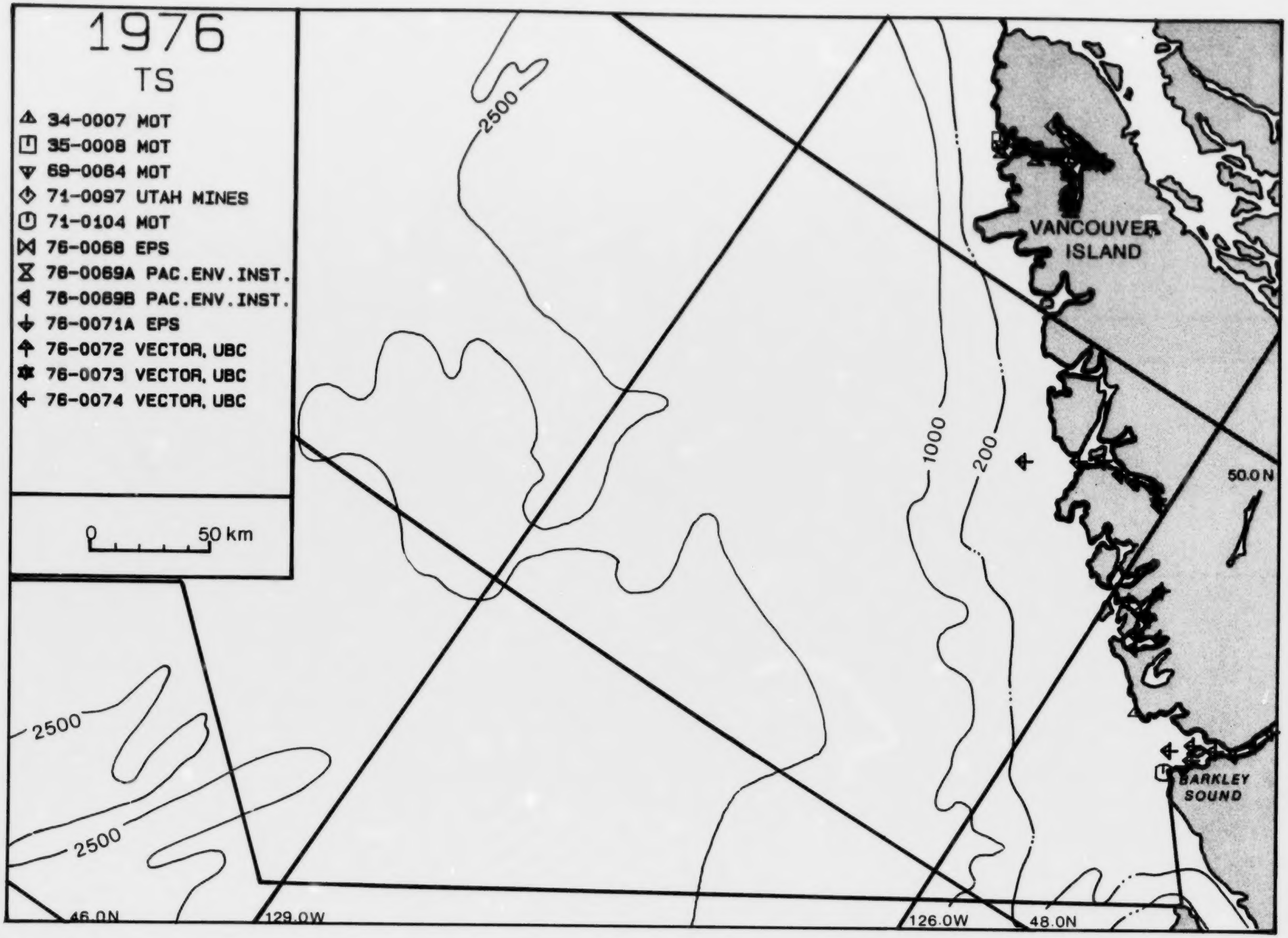

DEPTH ——— - - - 100m
0
5
10km
RUPERT INLET
QUATSINO NARROWS
HOLBERG INLET
QUATSINO SOUND
NEROUTSOS INLET
50°30'
127°30'
128°
1975
TS
△ 35-0008 MOT
⊡ 71-0097 UTAH MINES
⧖ 75-0081 EPS
▽ 75-0084A PAC.ENV.INST.
◇ 75-0084B PAC.ENV.INST.
⊙ 75-0122 IOS

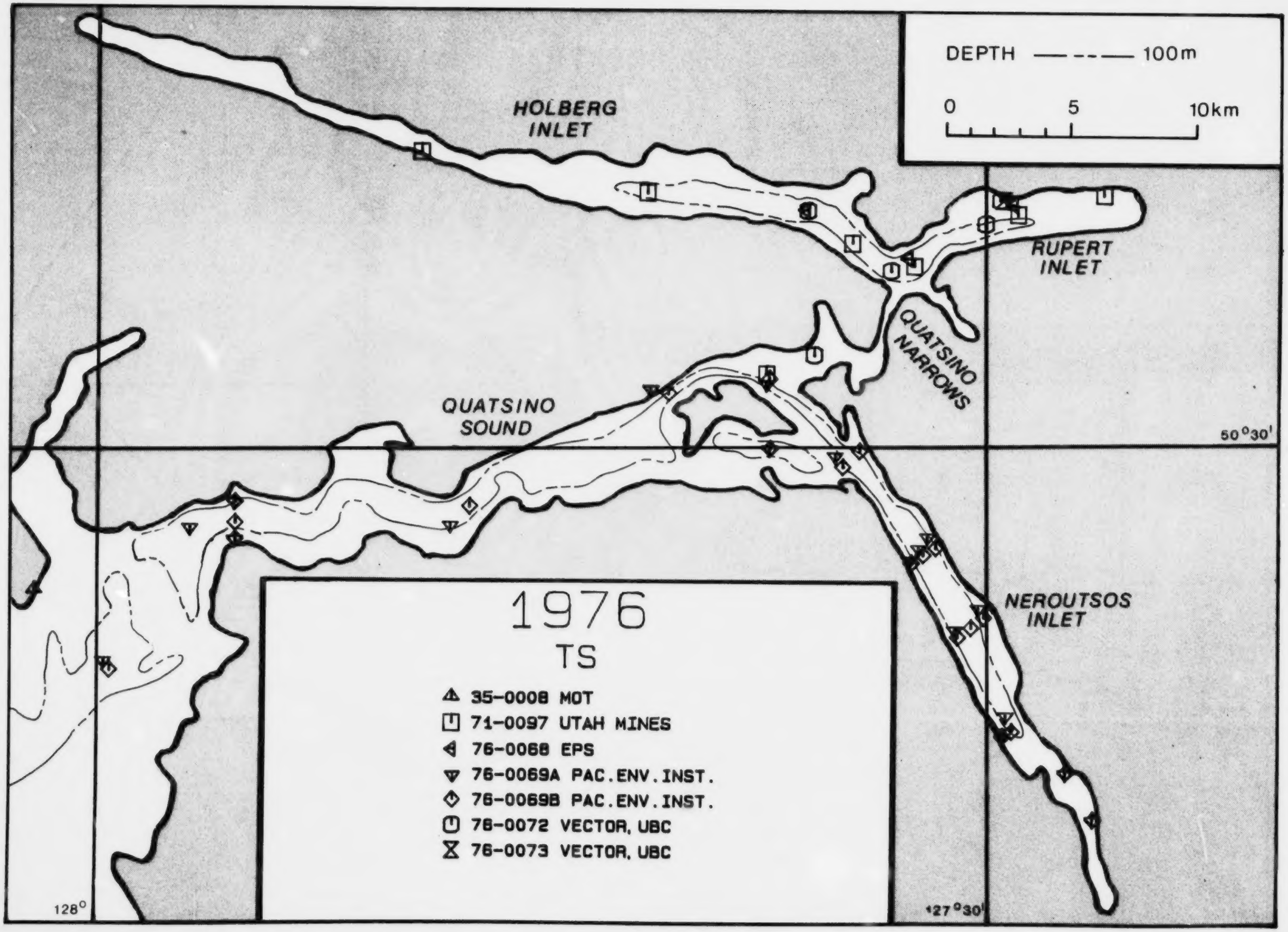

1975
TS
△ 69-0064 MOT
□ 71-0104 MOT
WL
Y 70-0032 CHS
✳ 70-0065 CHS
+ 75-0070 CHS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
0 5 10 km
DEPTH
50 m
100 m
BARKLEY SOUND
CAPE BEALE
125°20'
125°

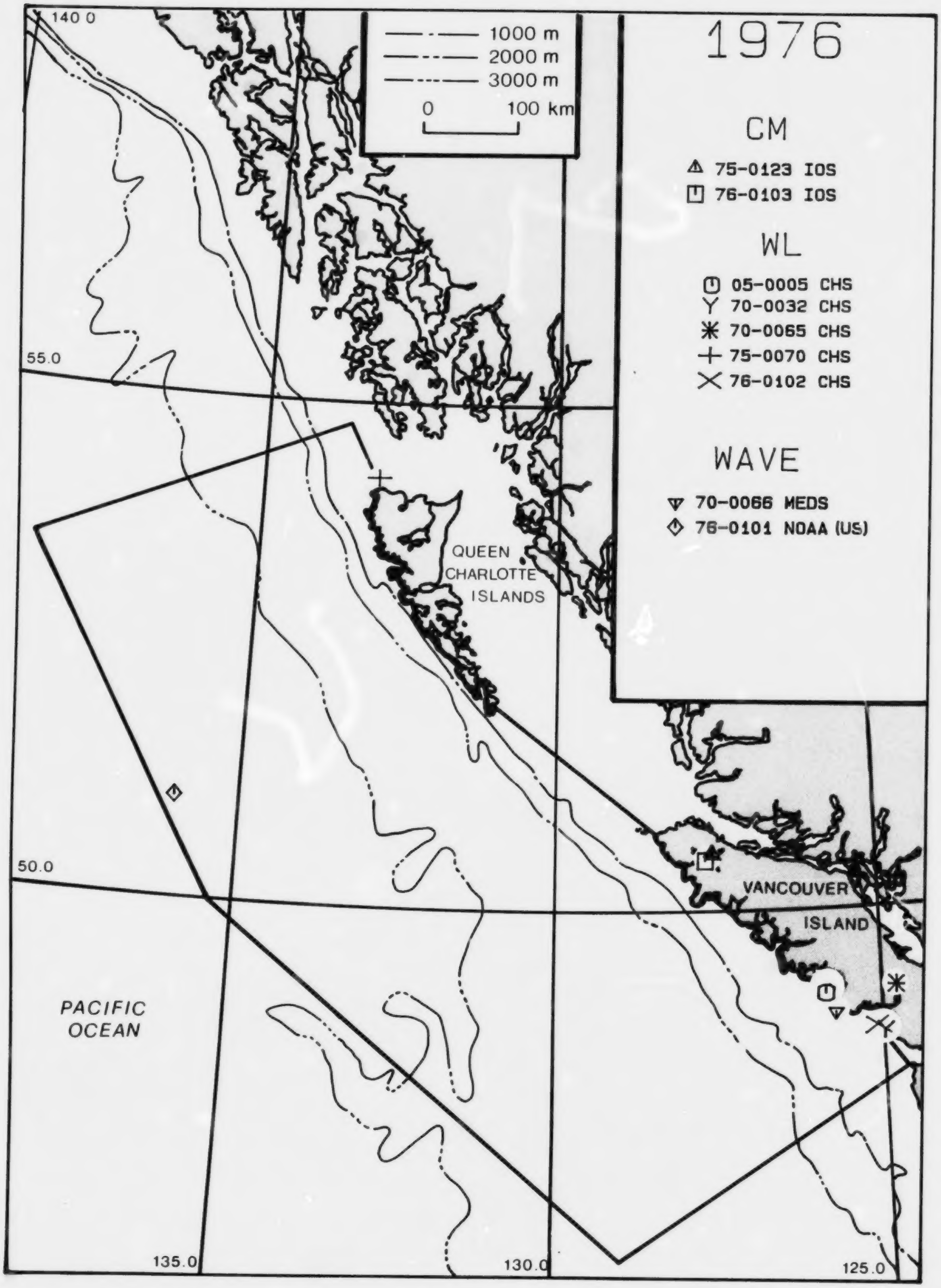

1975
CM
74-0057 MEDS/IOS
75-0121 IOS
75-0122 IOS
75-0123 IOS
75-0128 IOS
WL
Z 05-0005 CHS
Y 70-0032 CHS
70-0065 CHS
74-0057 IOS
74-0106 IOS
75-0070 CHS
WAVE
70-0066 MEDS
1000 m
2000 m
3000 m
0
100 km
140 0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

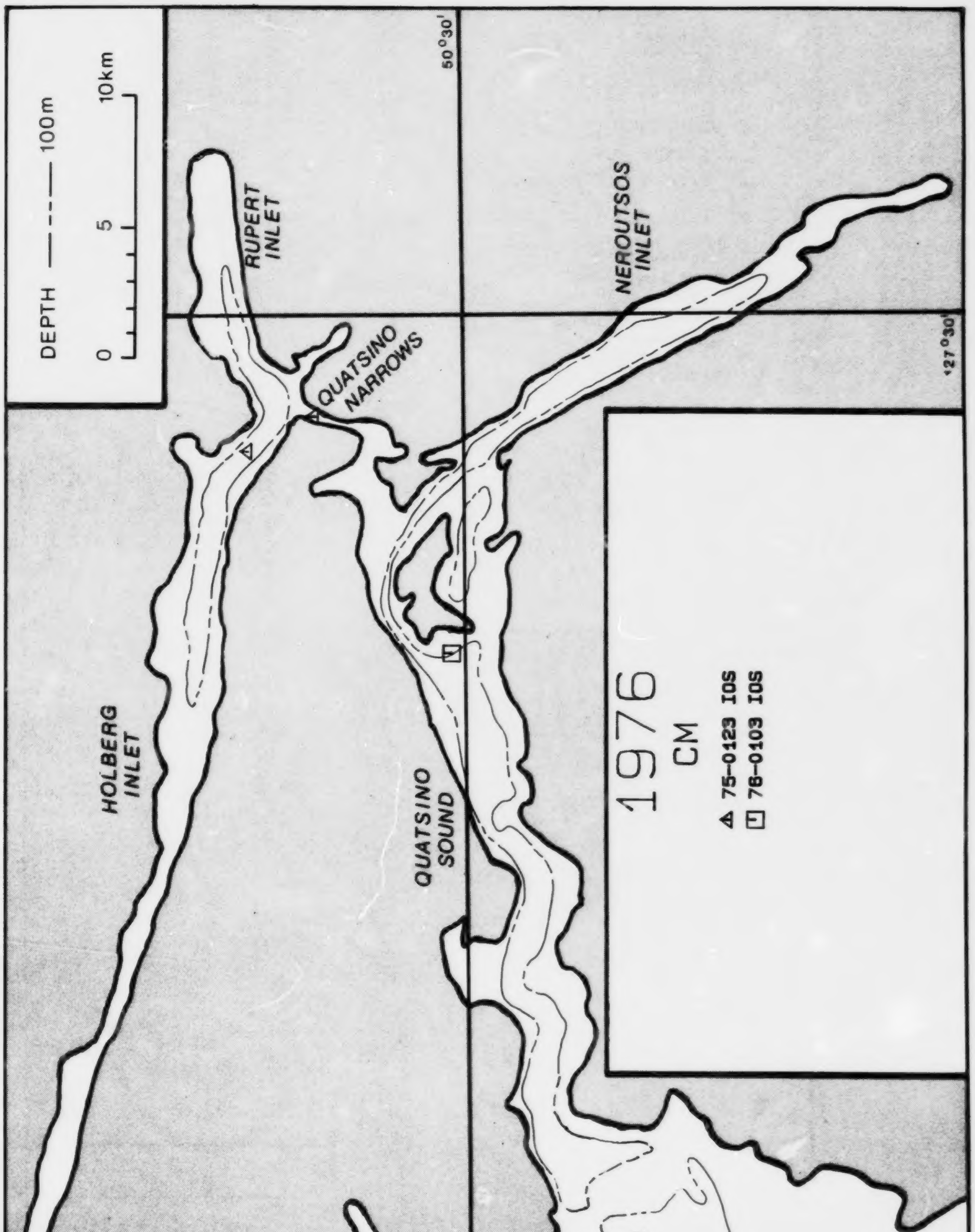

DEPTH —·—·— 100m
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
128°
127°30'
1975
CM
△ 75-0121 IOS
□ 75-0122 IOS
▽ 75-0123 IOS
◇ 75-0128 IOS

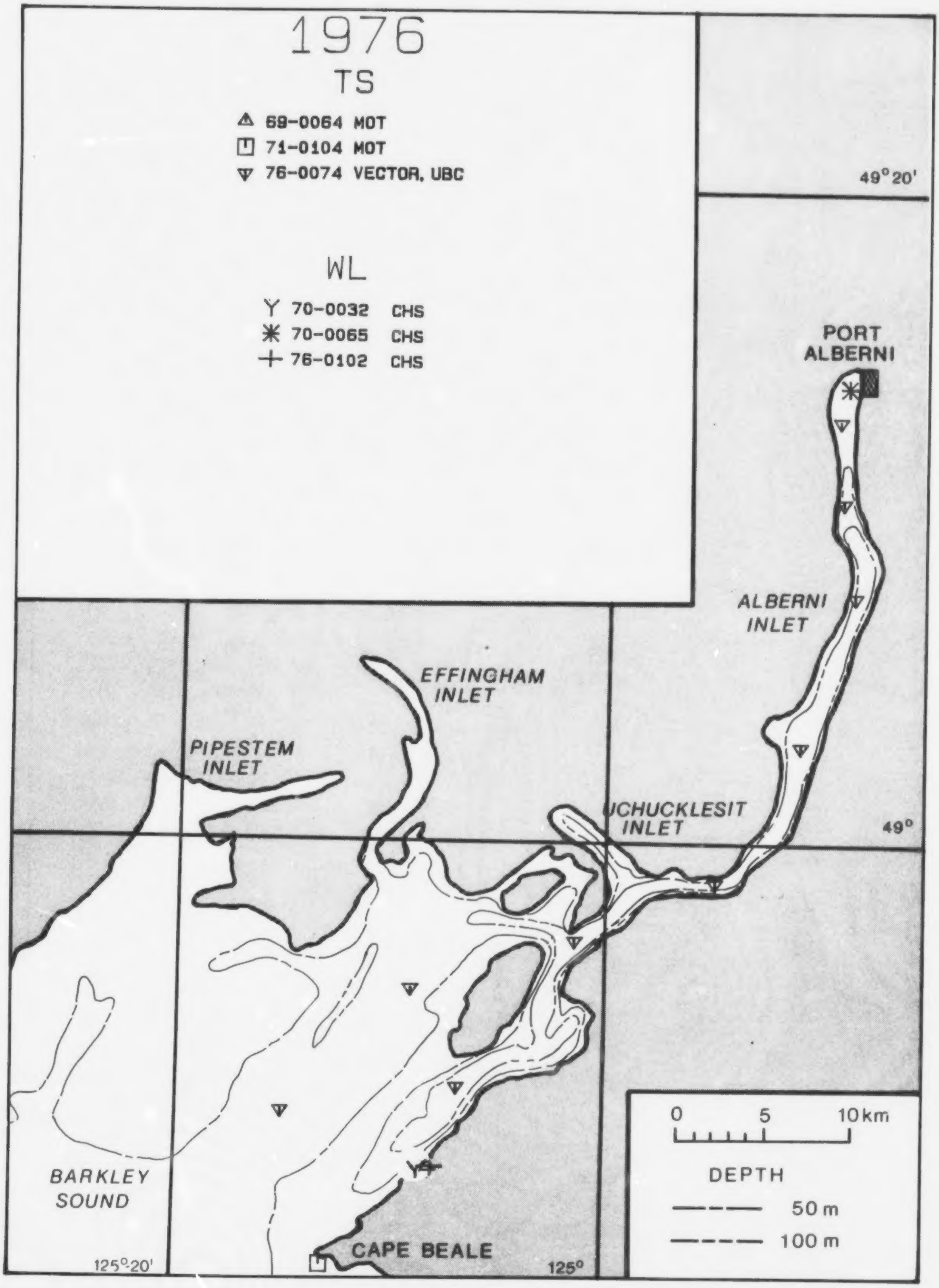

140 0
1000 m
2000 m
3000 m
0
100 km
1976
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
69-0064 MOT
71-0097 UTAH MINES
71-0104 MOT
76-0067 CAMPBELL (US)
76-0068 EPS
76-0069A PAC.ENV.INST.
76-0069B PAC.ENV.INST.
76-0071A EPS
76-0072 VECTOR, UBC
76-0073 VECTOR, UBC
76-0074 VECTOR, UBC
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

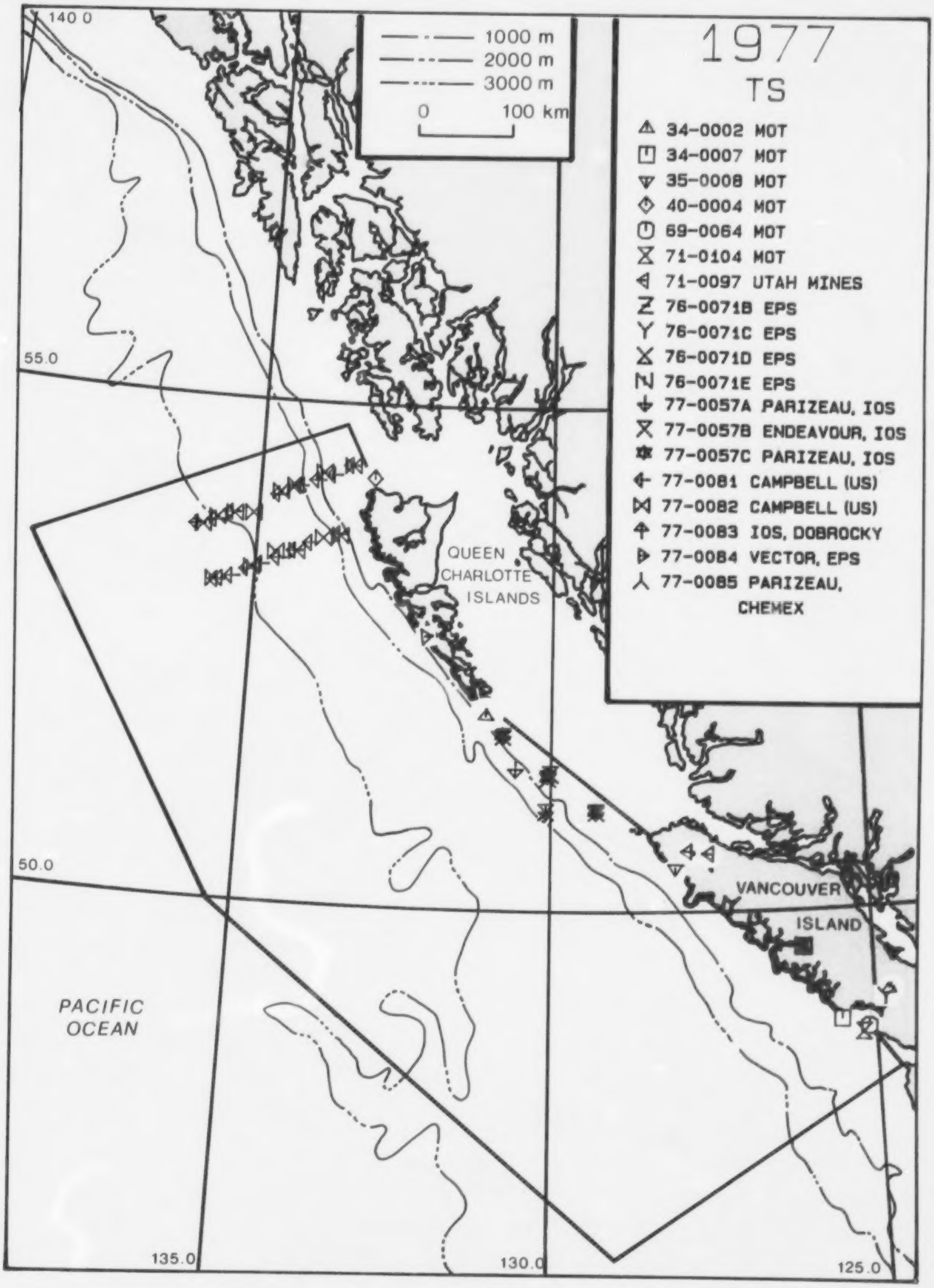

1976
TS
△ 34-0007 MOT
☐ 35-0008 MOT
▽ 69-0064 MOT
◇ 71-0097 UTAH MINES
○ 71-0104 MOT
⋈ 76-0068 EPS
⧗ 76-0069A PAC.ENV.INST.
◁ 76-0069B PAC.ENV.INST.
↓ 76-0071A EPS
↑ 76-0072 VECTOR, UBC
✡ 76-0073 VECTOR, UBC
← 76-0074 VECTOR, UBC
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

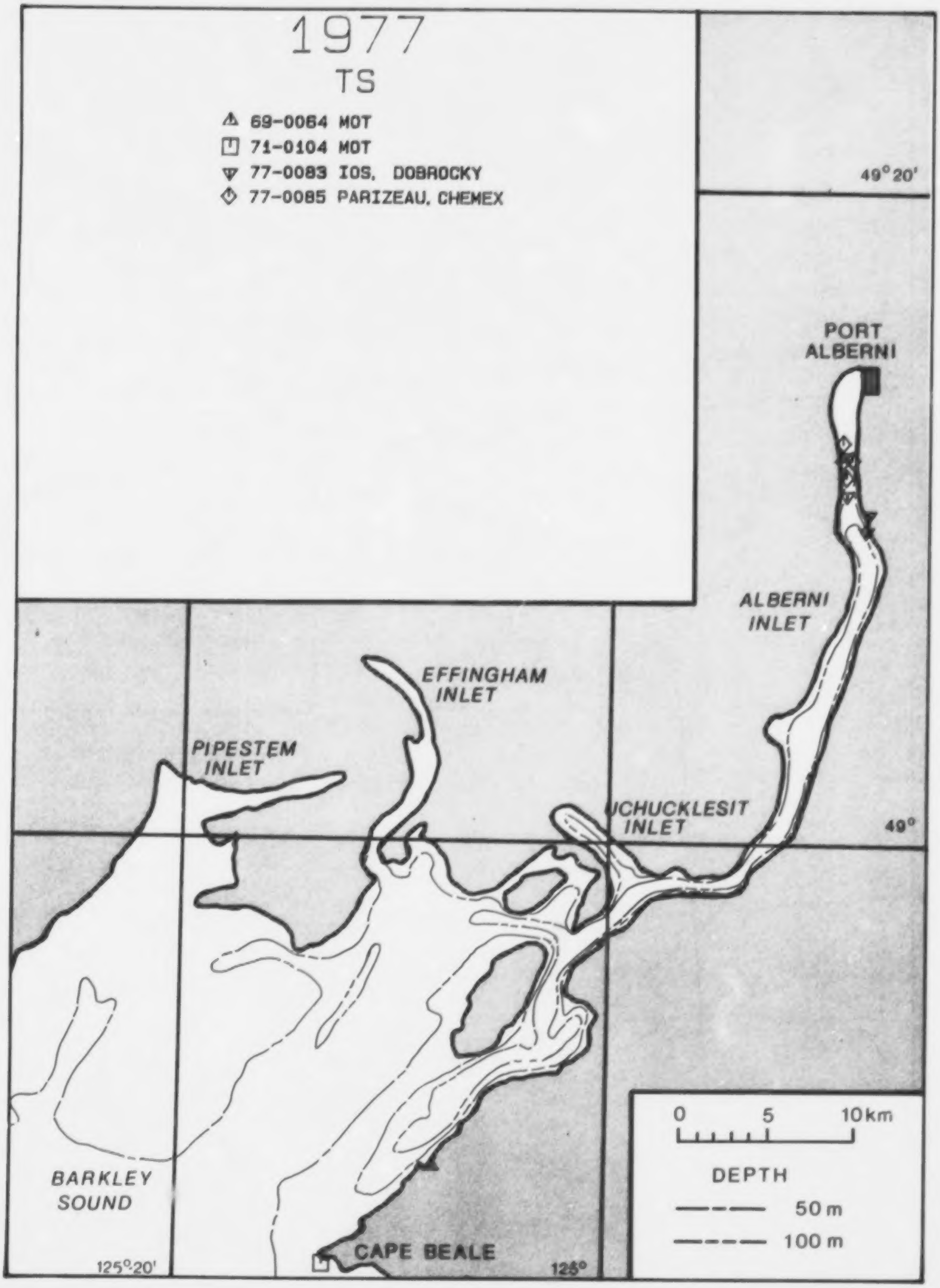

HOLBERG INLET
DEPTH ——-- —— 100m
0
5
10km
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
50°30'
NEROUTSOS INLET
1976
TS
△ 35-0008 MOT
□ 71-0097 UTAH MINES
◁ 76-0068 EPS
▽ 76-0069A PAC.ENV.INST.
◇ 76-0069B PAC.ENV.INST.
○ 76-0072 VECTOR, UBC
⧗ 76-0073 VECTOR, UBC
128°
127°30'

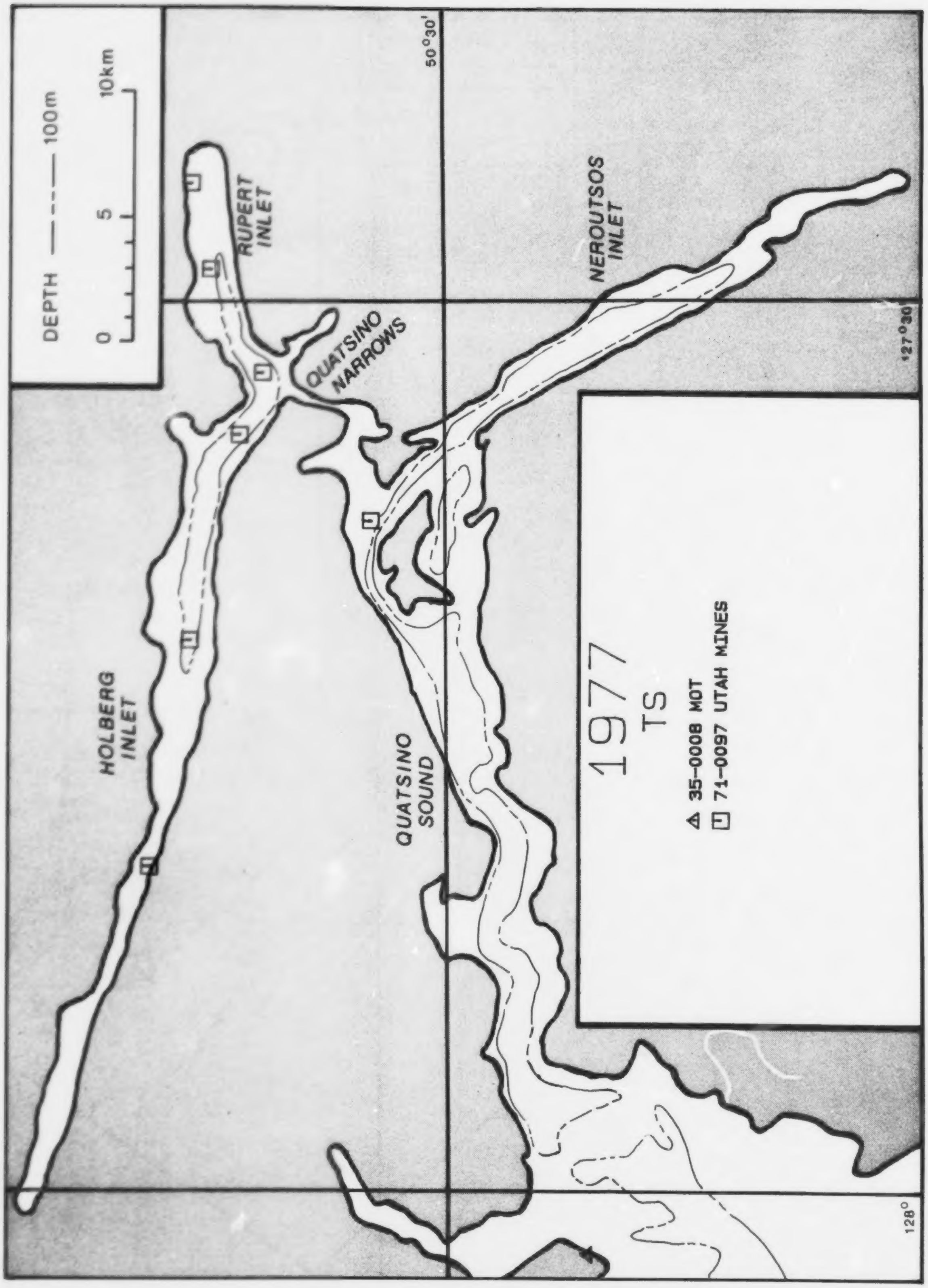

140 0
1000 m
2000 m
3000 m
0
100 km
1976
CM
△ 75-0123 IOS
☐ 76-0103 IOS
WL
05-0005 CHS
Y 70-0032 CHS
✳ 70-0065 CHS
+ 75-0070 CHS
✕ 76-0102 CHS
WAVE
▽ 70-0066 MEDS
◇ 76-0101 NOAA (US)
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

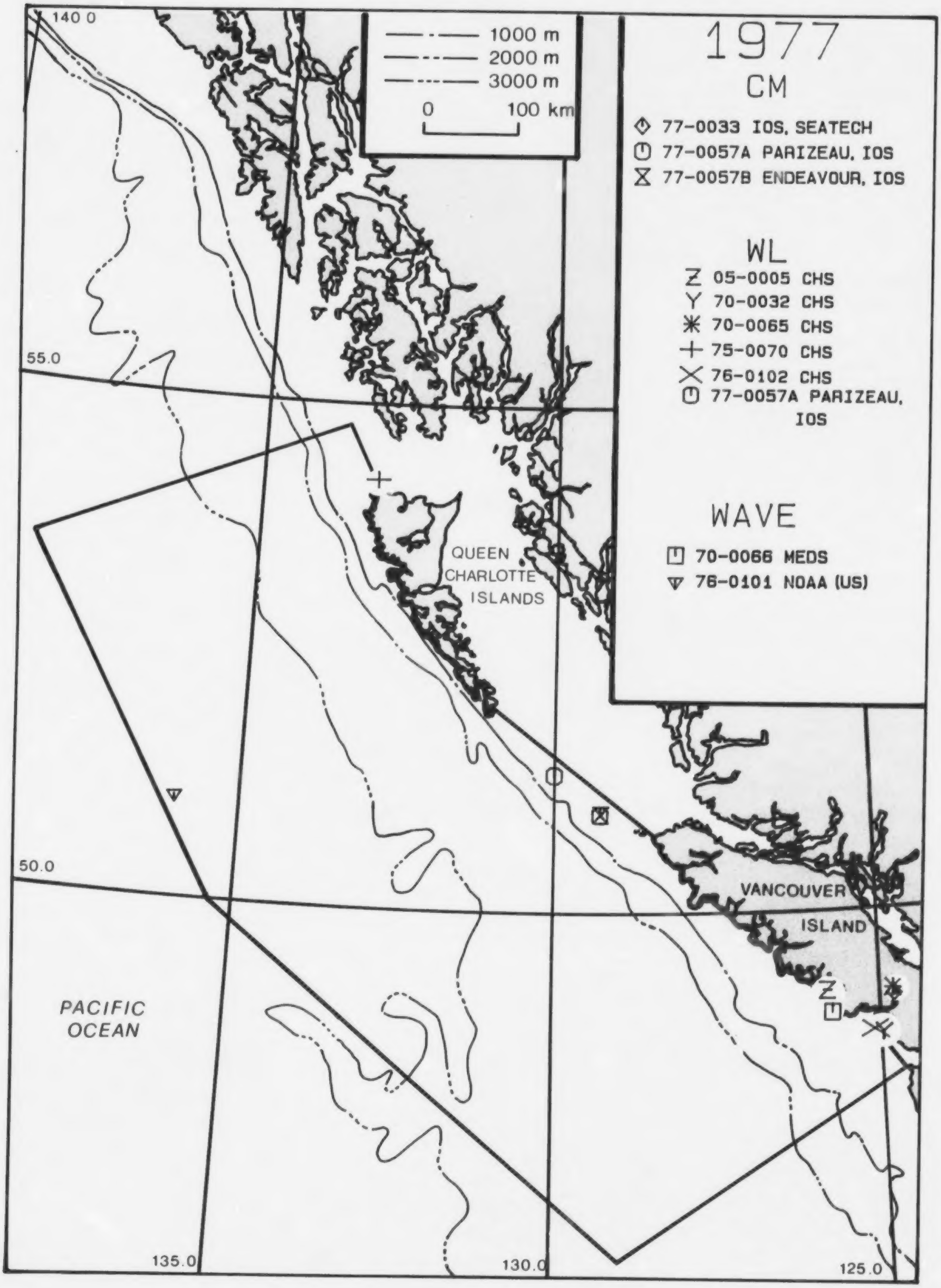

DEPTH ——— 100m
0
5
10km
RUPERT INLET
QUATSINO NARROWS
HOLBERG INLET
QUATSINO SOUND
NEROUTSOS INLET
50°30'
127°30'
128°
1976
CM
△ 75-0123 IOS
□ 76-0103 IOS

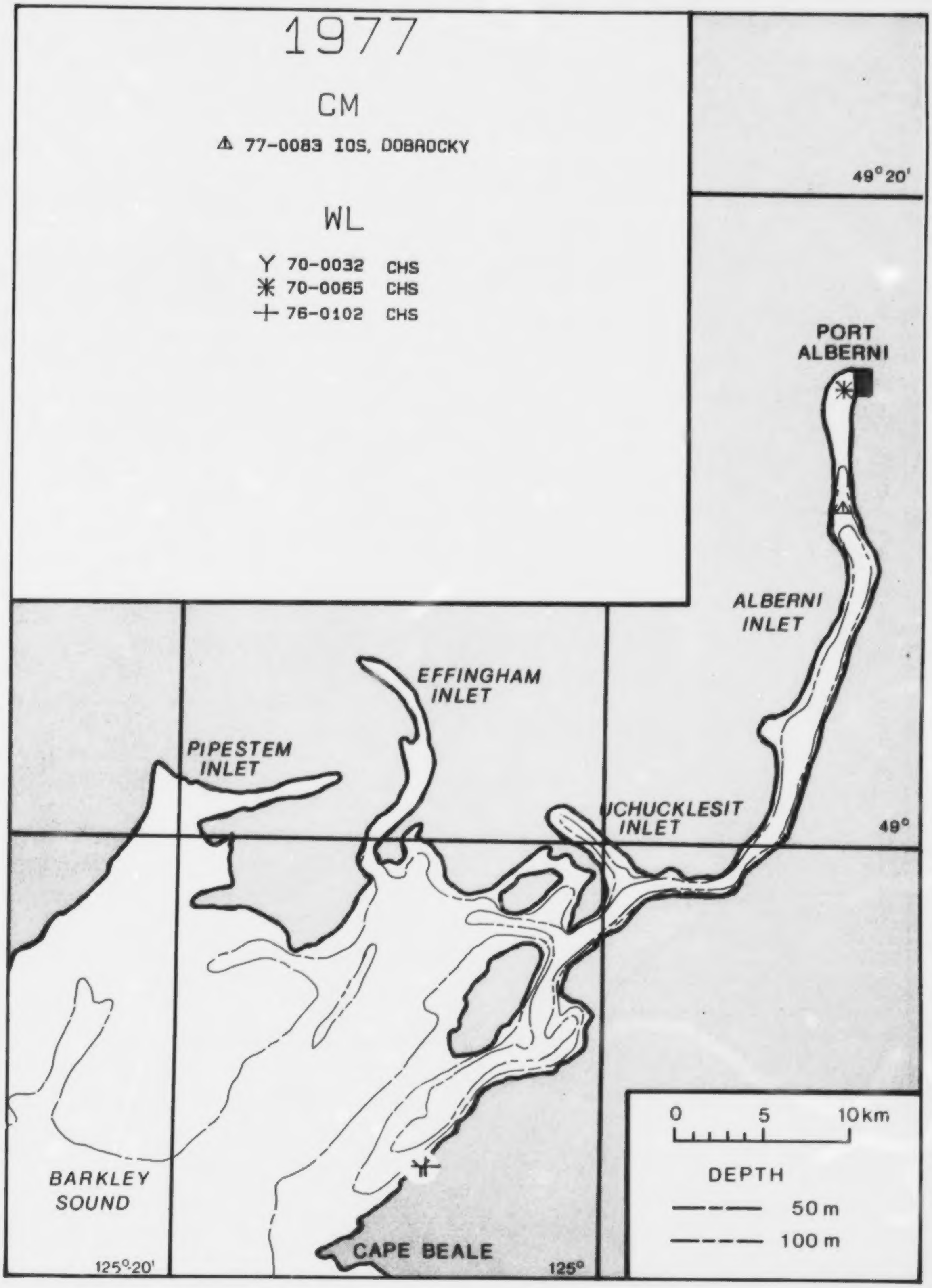

1976
TS
△ 69-0064 MOT
⊡ 71-0104 MOT
▽ 76-0074 VECTOR, UBC
WL
Y 70-0032 CHS
✳ 70-0065 CHS
+ 76-0102 CHS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

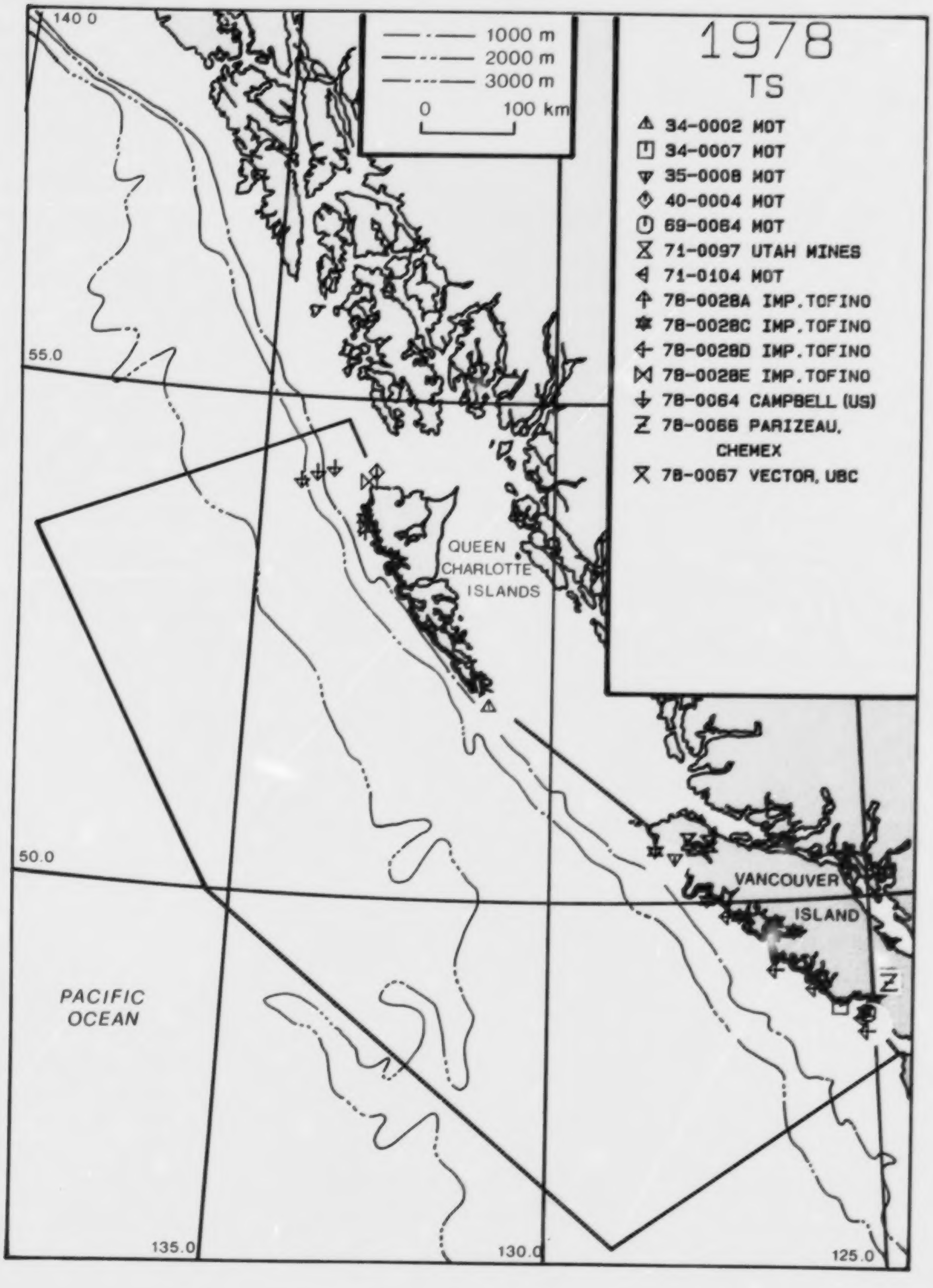

140.0
1000 m
2000 m
3000 m
0
100 km
1977
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
69-0064 MOT
71-0104 MOT
71-0097 UTAH MINES
76-0071B EPS
76-0071C EPS
76-0071D EPS
76-0071E EPS
77-0057A PARIZEAU, IOS
77-0057B ENDEAVOUR, IOS
77-0057C PARIZEAU, IOS
77-0081 CAMPBELL (US)
77-0082 CAMPBELL (US)
77-0083 IOS, DOBROCKY
77-0084 VECTOR, EPS
77-0085 PARIZEAU, CHEMEX
55.0
QUEEN CHARLOTTE ISLANDS
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

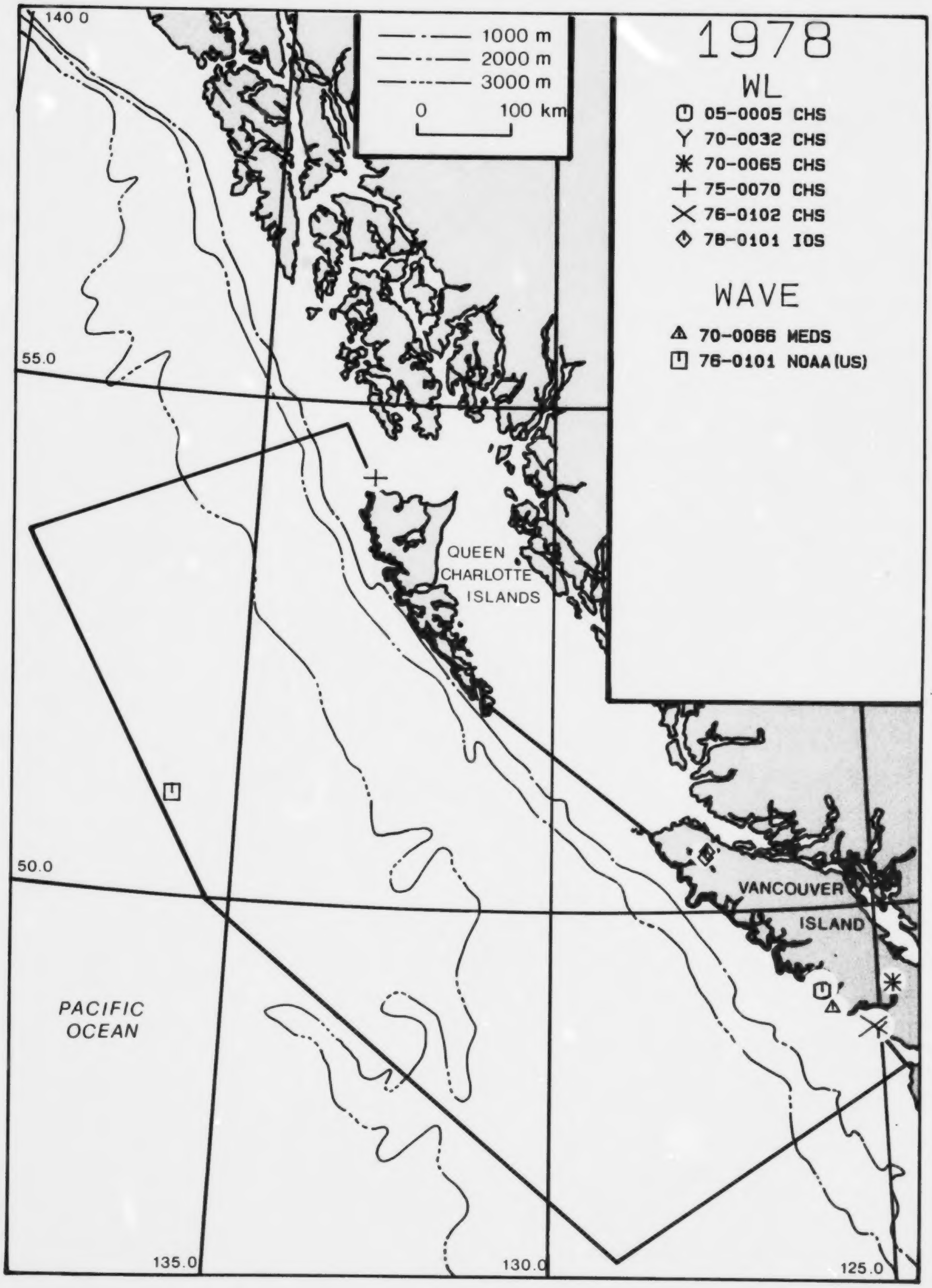

1977
TS
⚠ 69-0064 MOT
☐ 71-0104 MOT
▽ 77-0083 IOS, DOBROCKY
◇ 77-0085 PARIZEAU, CHEMEX
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
0
5
10 km
DEPTH
50 m
100 m
BARKLEY SOUND
CAPE BEALE
125° 20'
125°

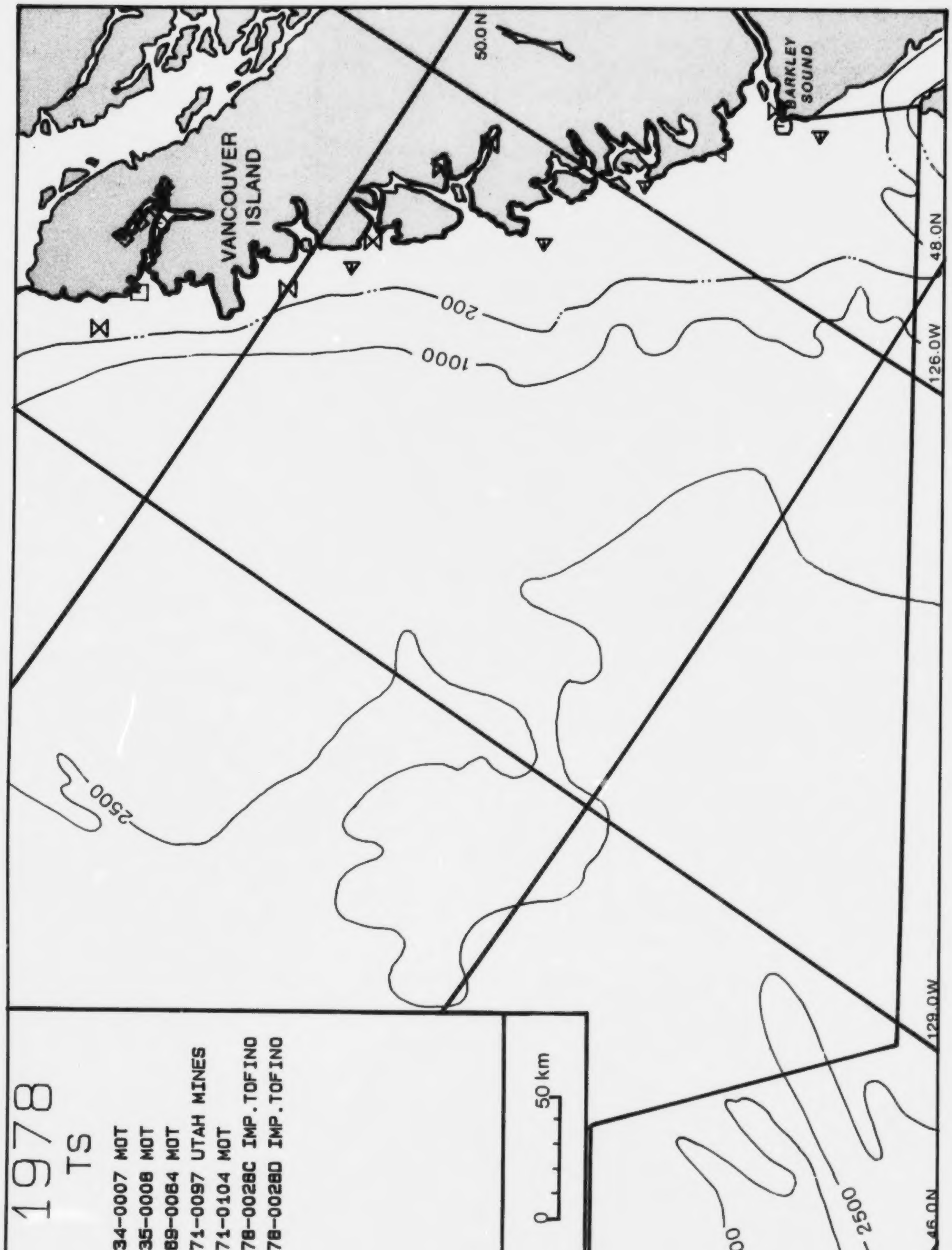

DEPTH —— - - - 100m
0 5 10km
RUPERT INLET
QUATSINO NARROWS
HOLBERG INLET
QUATSINO SOUND
NEROUTSOS INLET
50°30'
127°30'
128°
1977
TS
△ 35-0008 MOT
☐ 71-0097 UTAH MINES

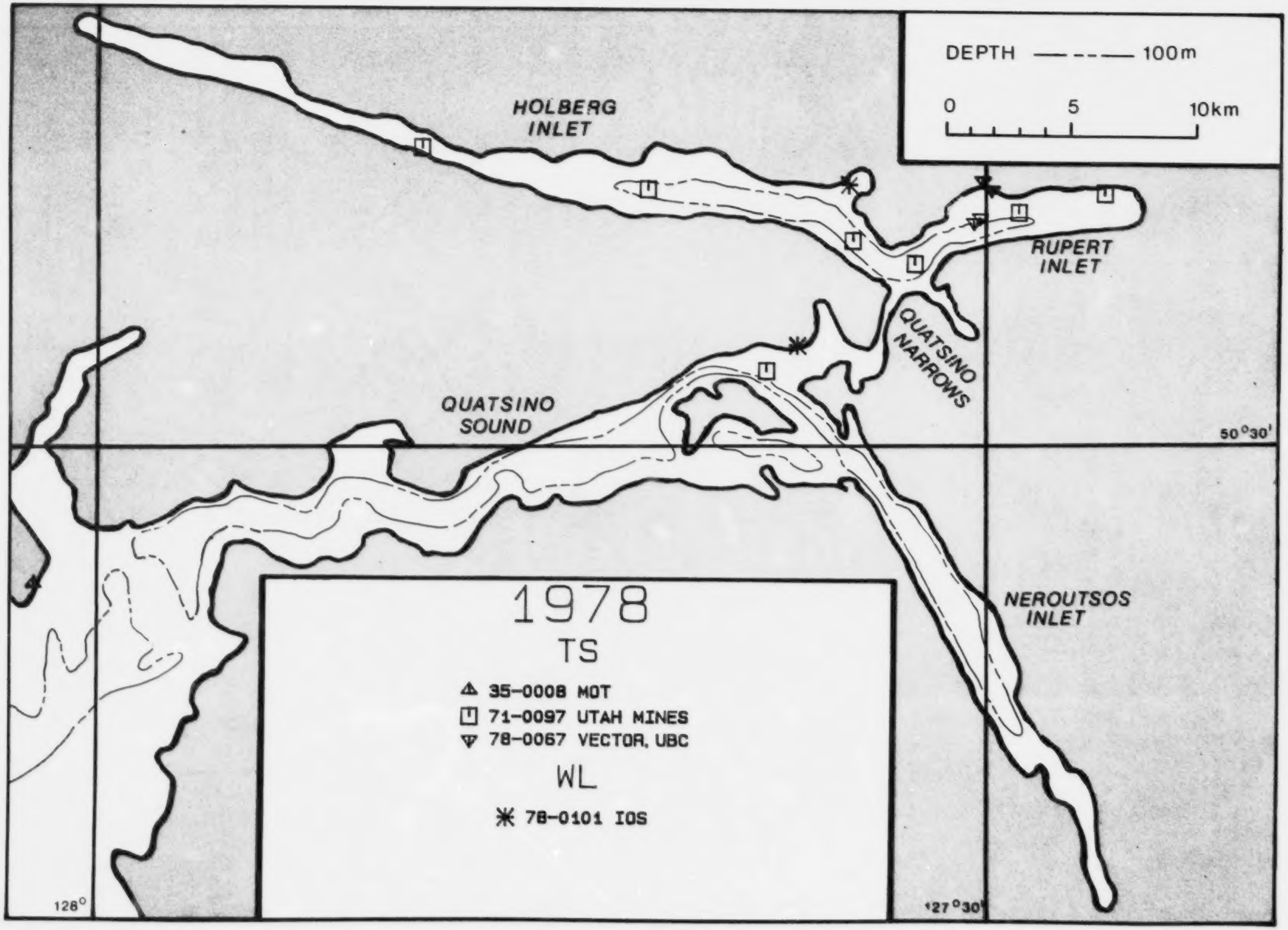

1000 m
2000 m
3000 m
0
100 km
1977
CM
◇ 77-0033 IOS, SEATECH
77-0057A PARIZEAU, IOS
⧗ 77-0057B ENDEAVOUR, IOS
WL
Z 05-0005 CHS
Y 70-0032 CHS
✳ 70-0065 CHS
+ 75-0070 CHS
✕ 76-0102 CHS
77-0057A PARIZEAU, IOS
WAVE
70-0066 MEDS
▽ 76-0101 NOAA (US)
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

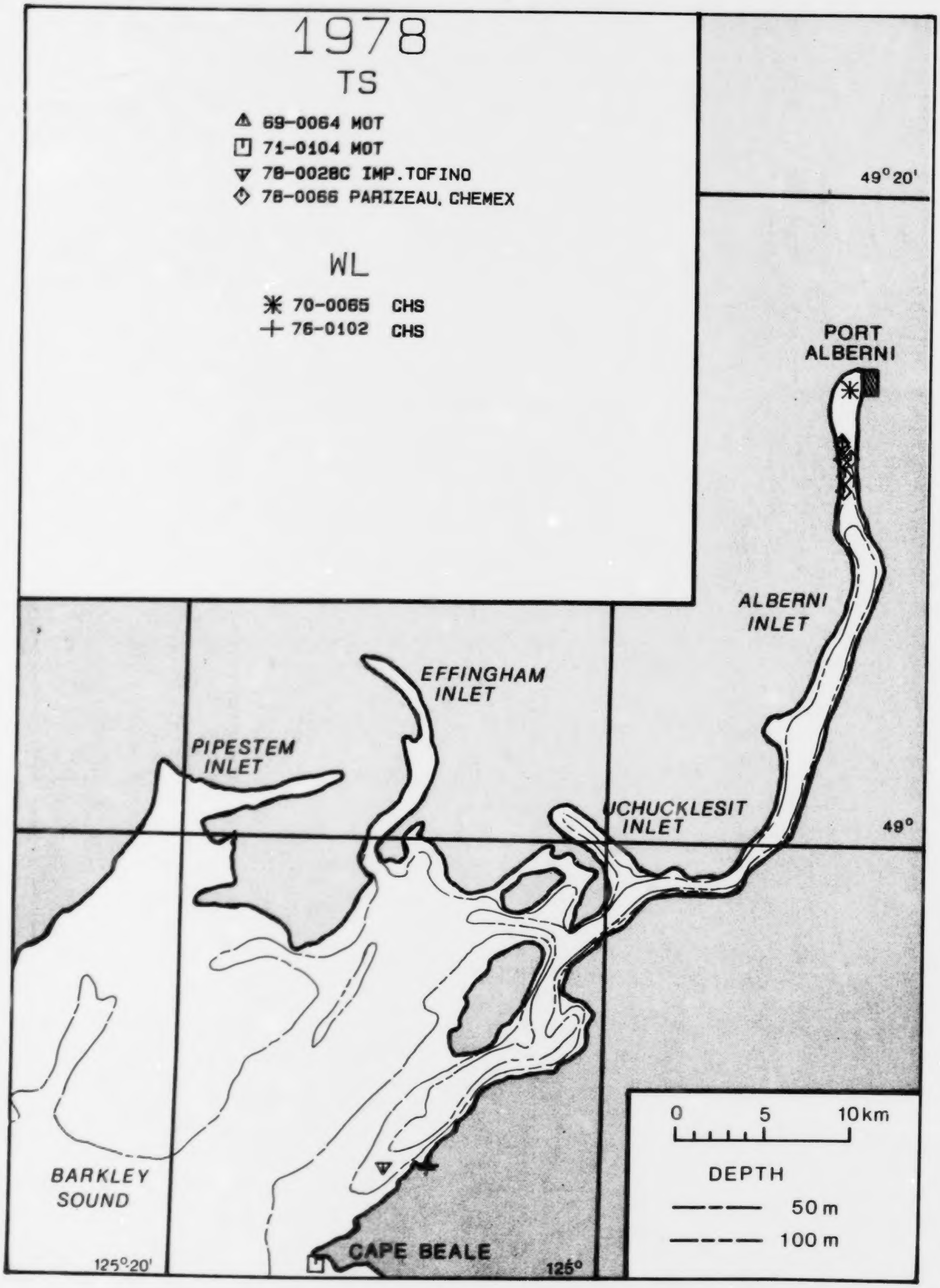

1977
CM
⚠ 77-0083 IOS, DOBROCKY
WL
Y 70-0032 CHS
✳ 70-0065 CHS
+ 76-0102 CHS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

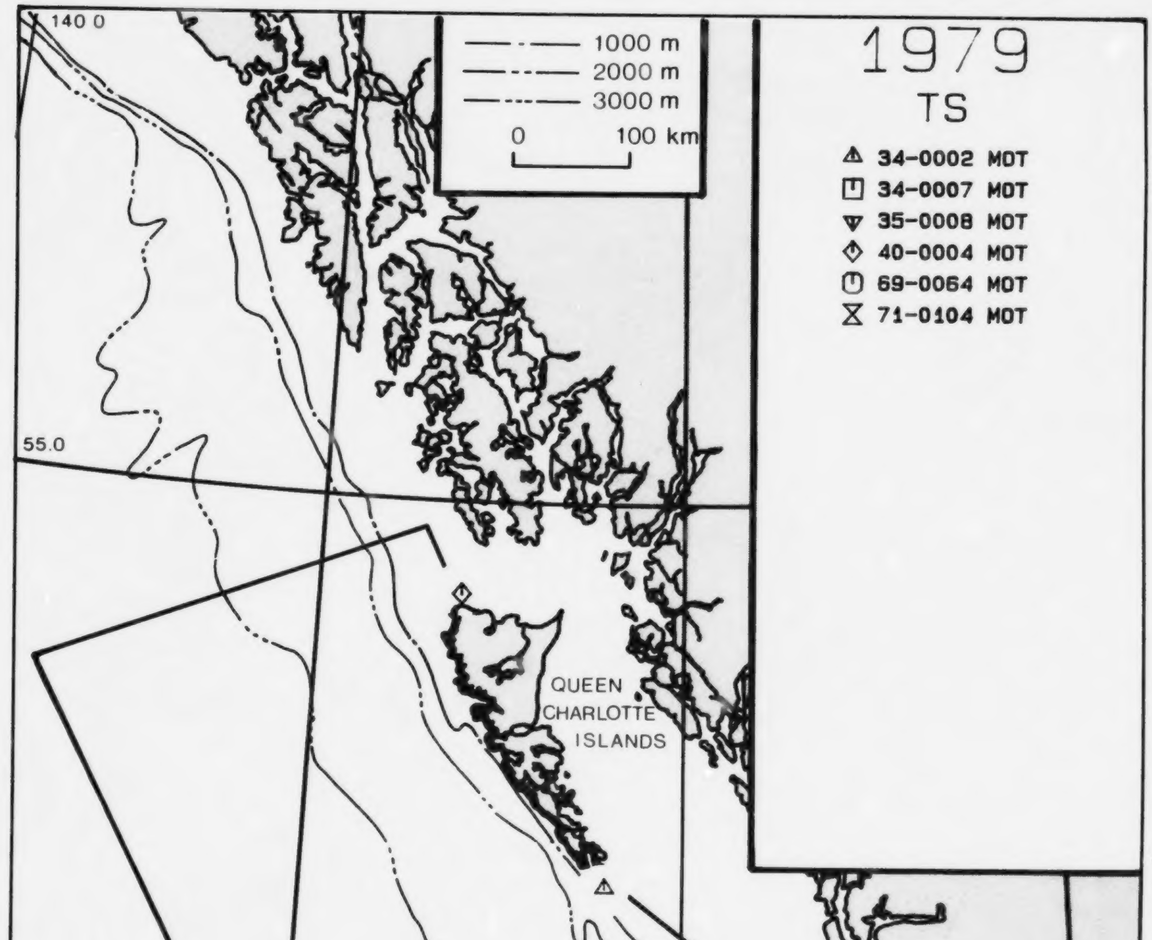

140.0
1000 m
2000 m
3000 m
0
100 km
1978
TS
△ 34-0002 MOT
□ 34-0007 MOT
▽ 35-0008 MOT
◇ 40-0004 MOT
○ 69-0064 MOT
⧗ 71-0097 UTAH MINES
◁ 71-0104 MOT
↑ 78-0028A IMP.TOFINO
✡ 78-0028C IMP.TOFINO
← 78-0028D IMP.TOFINO
⋈ 78-0028E IMP.TOFINO
↓ 78-0064 CAMPBELL (US)
Z 78-0066 PARIZEAU, CHEMEX
⧗ 78-0067 VECTOR, UBC
55.0
QUEEN CHARLOTTE ISLANDS
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

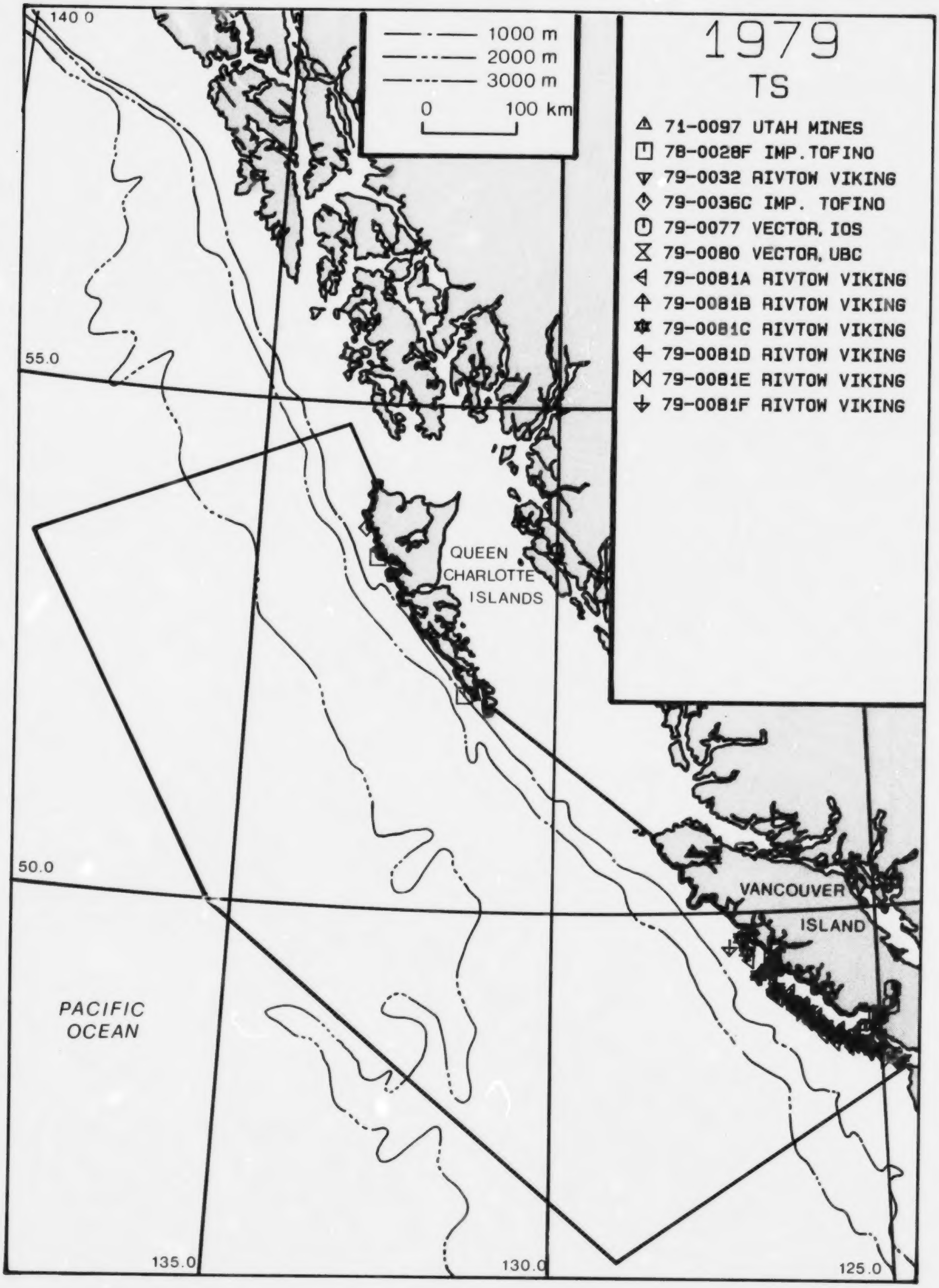

1000 m
2000 m
3000 m
0
100 km
1978
WL
05-0005 CHS
70-0032 CHS
70-0065 CHS
75-0070 CHS
76-0102 CHS
78-0101 IOS
WAVE
70-0066 MEDS
76-0101 NOAA (US)
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

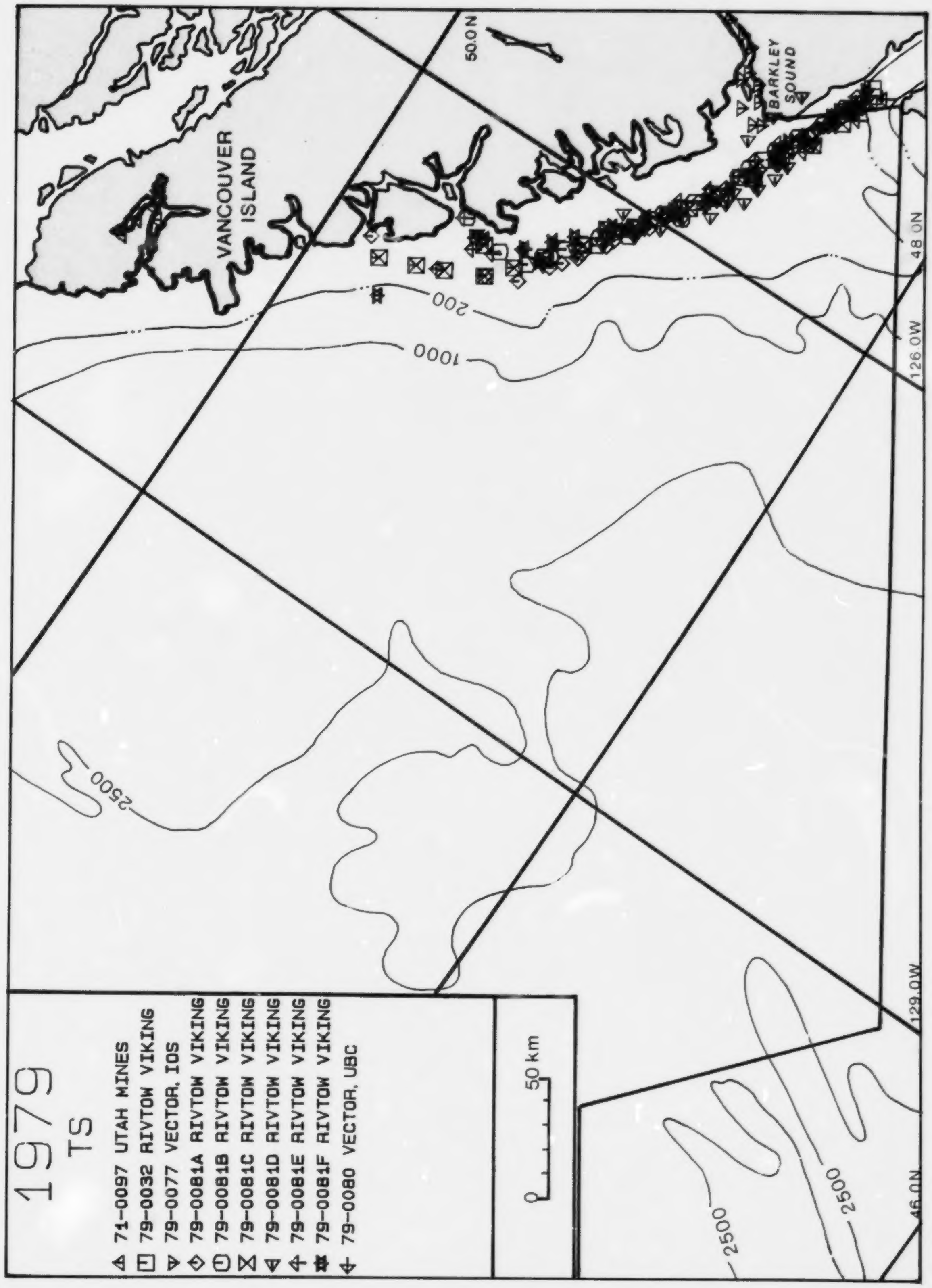

1978
TS
△ 34-0007 MOT
⊡ 35-0008 MOT
▽ 69-0064 MOT
◇ 71-0097 UTAH MINES
▢ 71-0104 MOT
⌛ 78-0028C IMP.TOFINO
▽ 78-0028D IMP.TOFINO
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

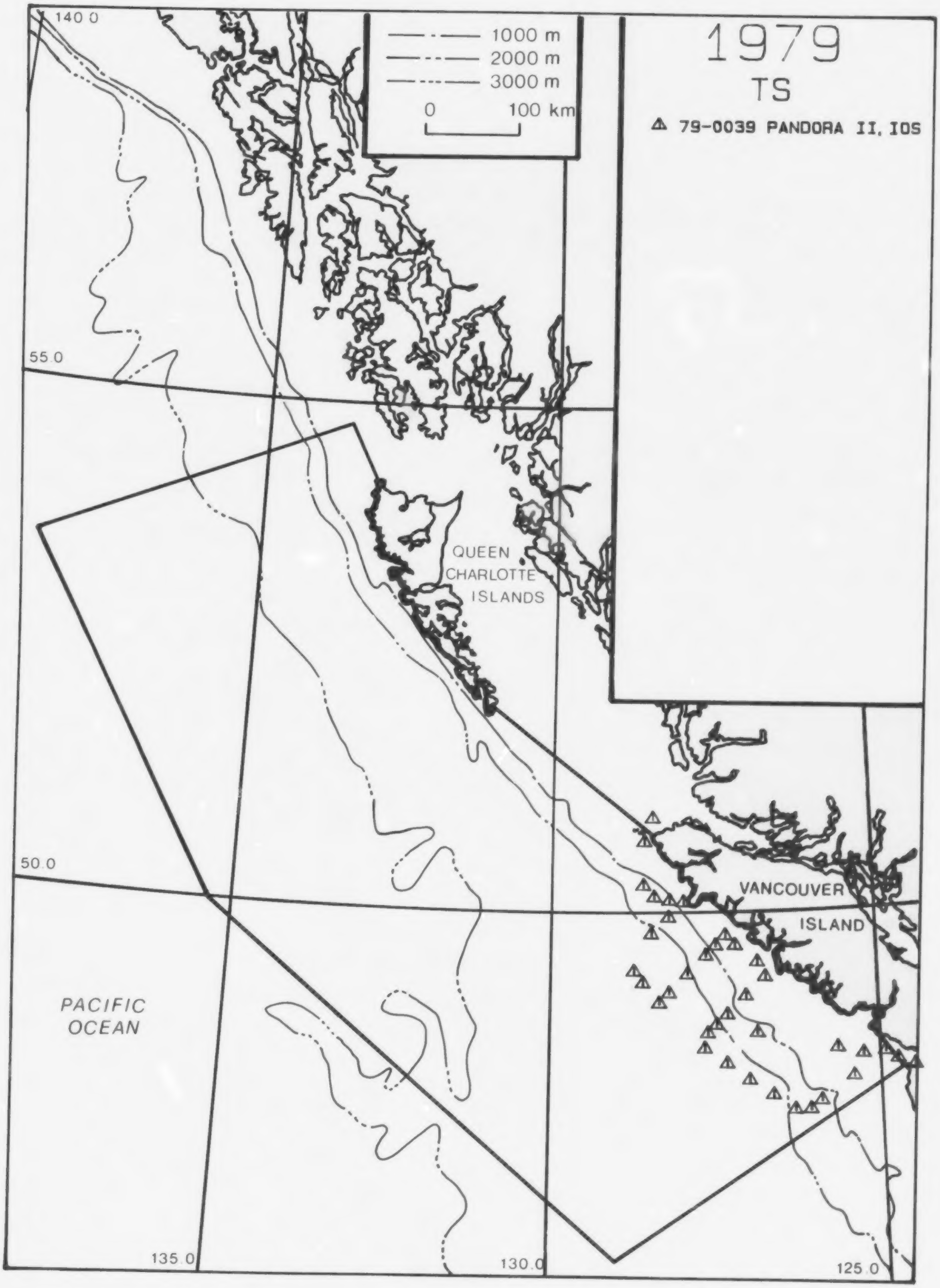

HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
DEPTH 100m
0
5
10km
50°30'
128°
127°30'
1978
TS
△ 35-0008 MOT
□ 71-0097 UTAH MINES
▽ 78-0067 VECTOR, UBC
WL
✳ 78-0101 IOS

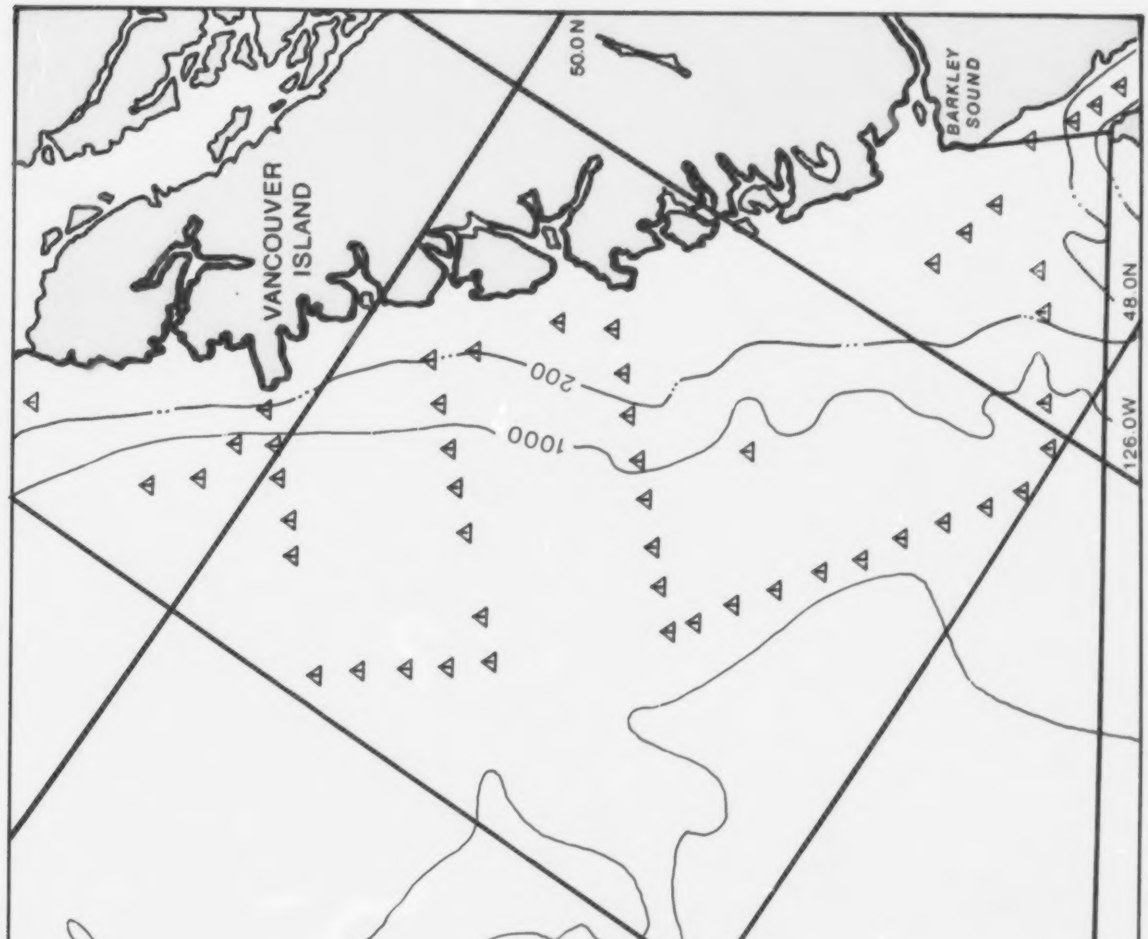

1978
TS
△ 69-0064 MOT
□ 71-0104 MOT
▽ 78-0028C IMP.TOFINO
◇ 78-0066 PARIZEAU, CHEMEX
WL
✳ 70-0065 CHS
+ 76-0102 CHS
PORT ALBERNI
49° 20'
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10km
DEPTH
50 m
100 m

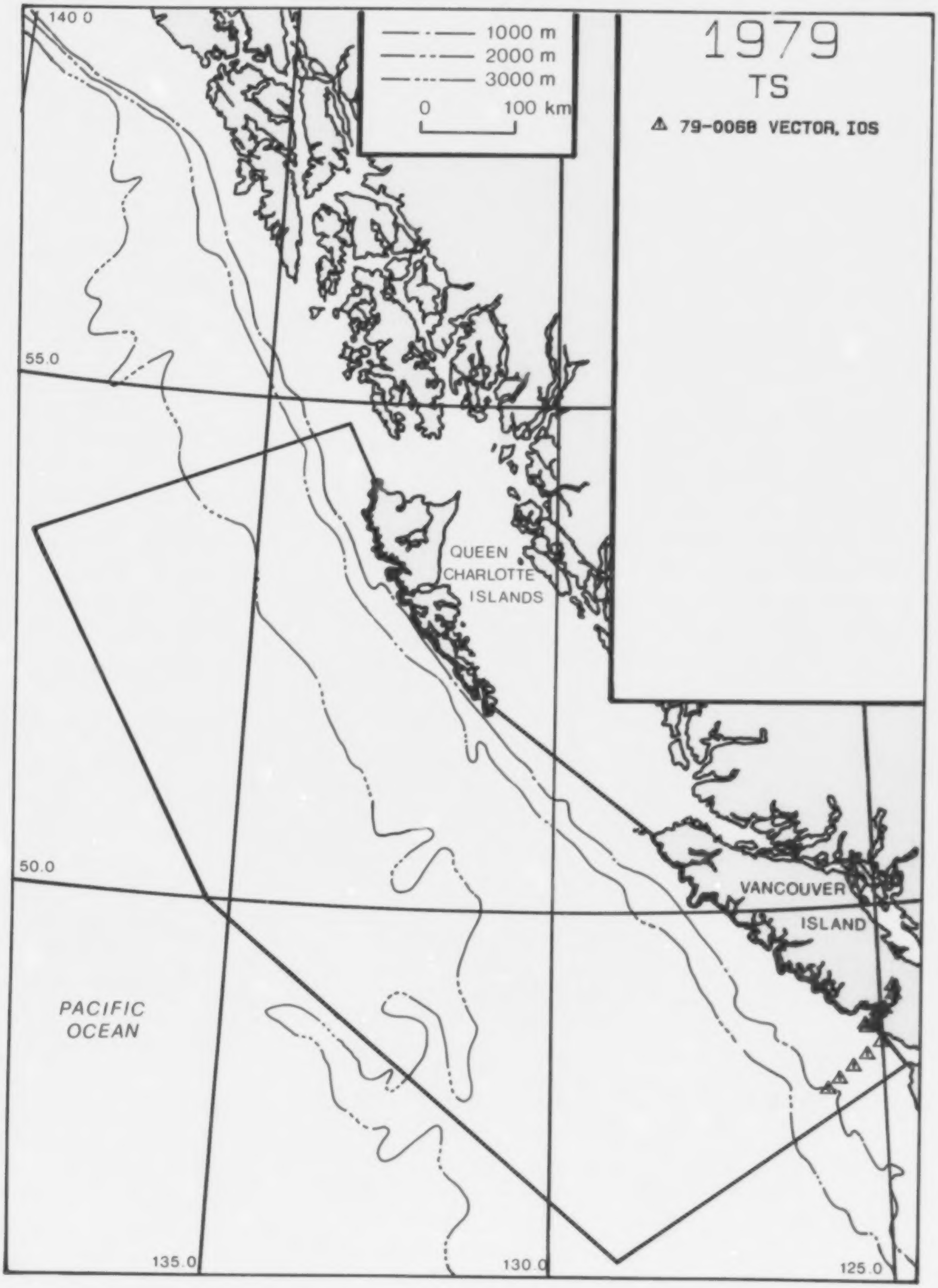

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
1979
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
69-0064 MOT
71-0104 MOT
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

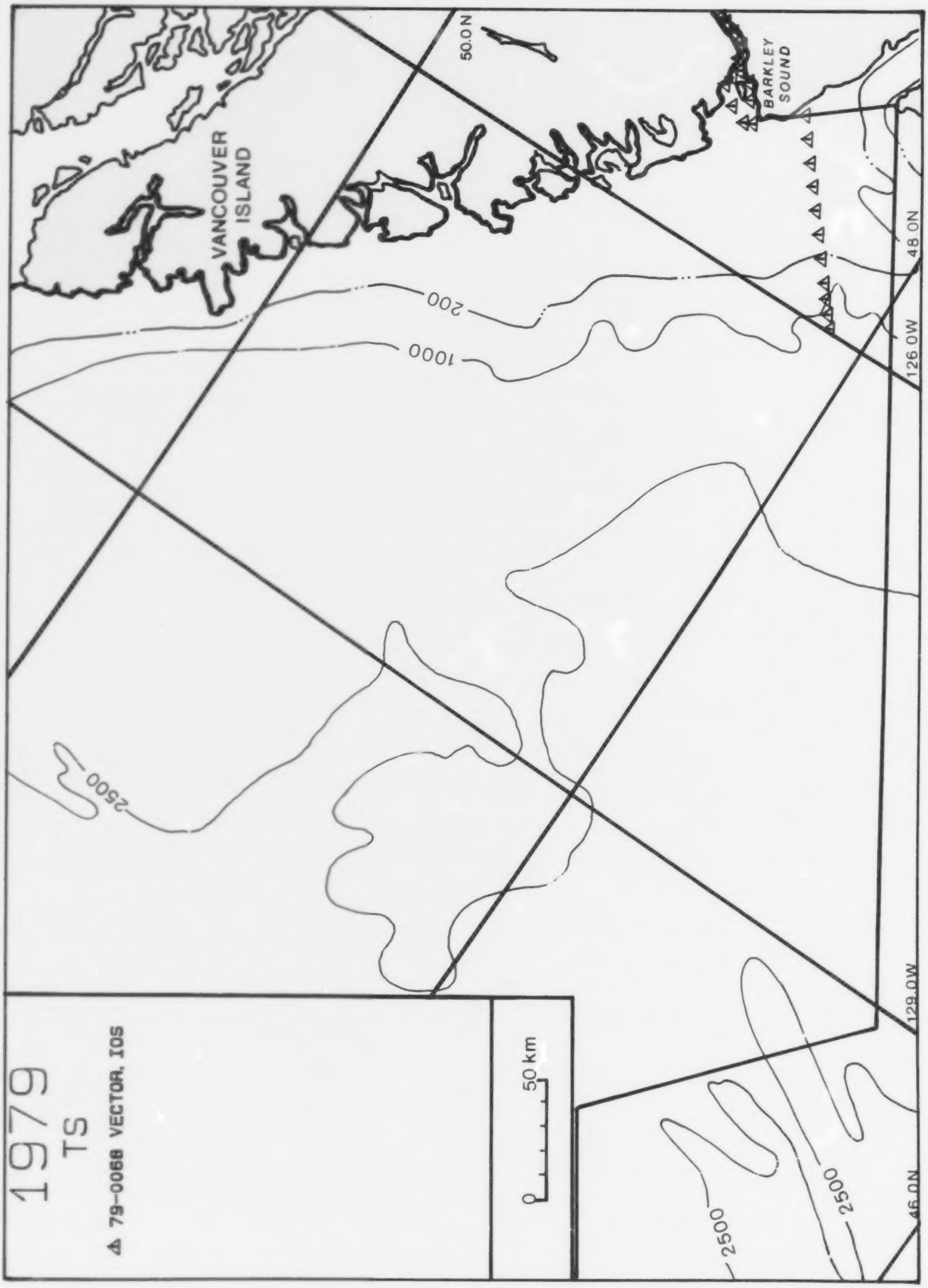

140 0
1000 m
2000 m
3000 m
0
100 km
1979
TS
71-0097 UTAH MINES
78-0028F IMP.TOFINO
79-0032 RIVTOW VIKING
79-0036C IMP. TOFINO
79-0077 VECTOR, IOS
79-0080 VECTOR, UBC
79-0081A RIVTOW VIKING
79-0081B RIVTOW VIKING
79-0081C RIVTOW VIKING
79-0081D RIVTOW VIKING
79-0081E RIVTOW VIKING
79-0081F RIVTOW VIKING
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

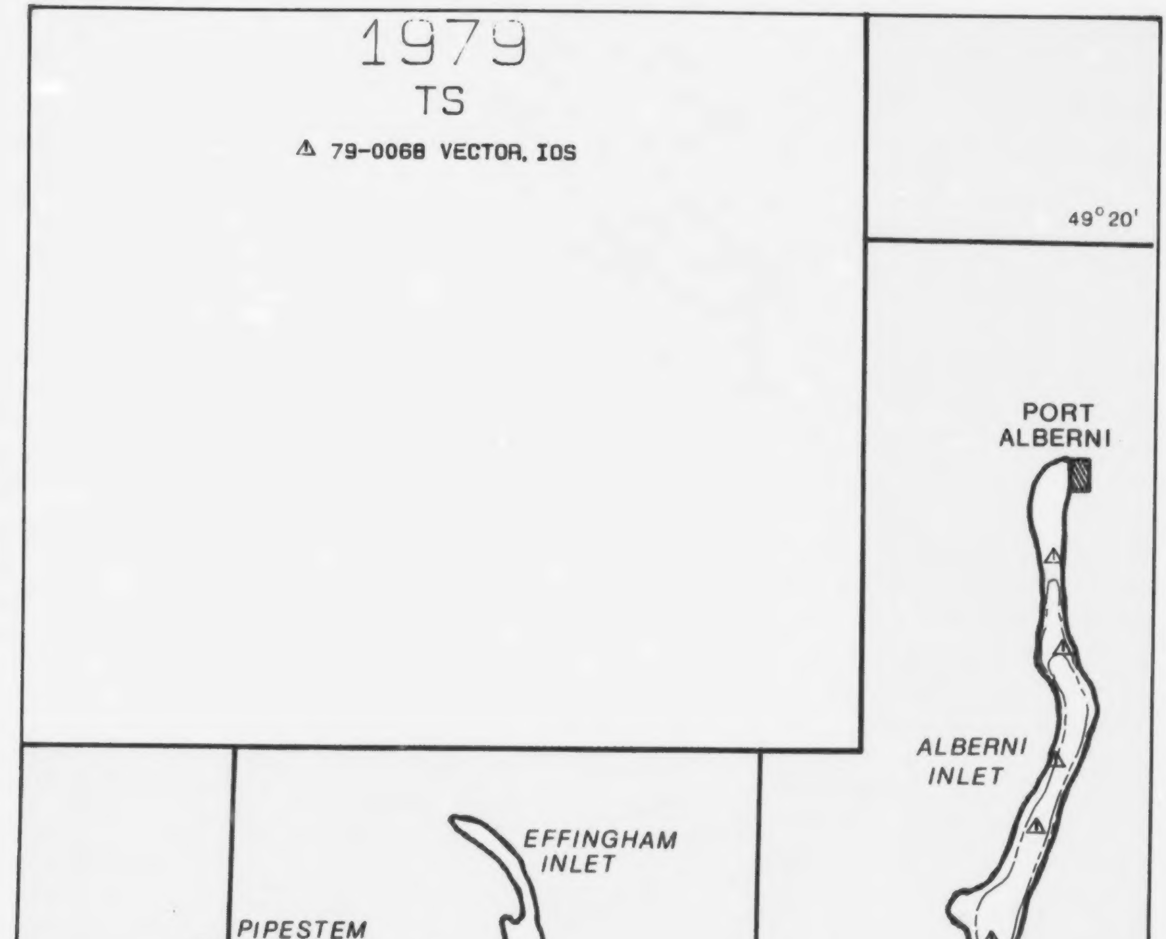

1979
TS
71-0097 UTAH MINES
79-0032 RIVTOW VIKING
79-0077 VECTOR, IOS
79-0081A RIVTOW VIKING
79-0081B RIVTOW VIKING
79-0081C RIVTOW VIKING
79-0081D RIVTOW VIKING
79-0081E RIVTOW VIKING
79-0081F RIVTOW VIKING
79-0080 VECTOR, UBC
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

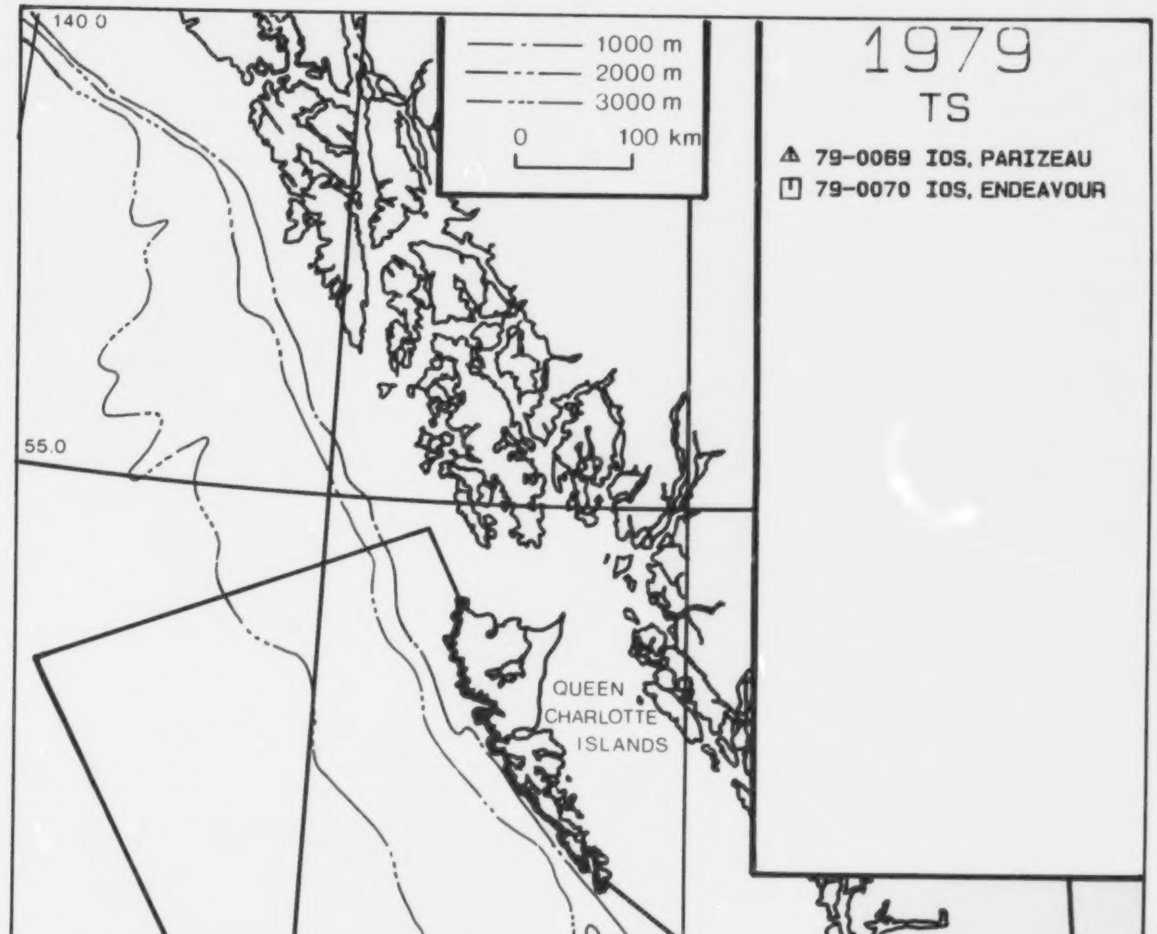

1979
TS
△ 79-0039 PANDORA II, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

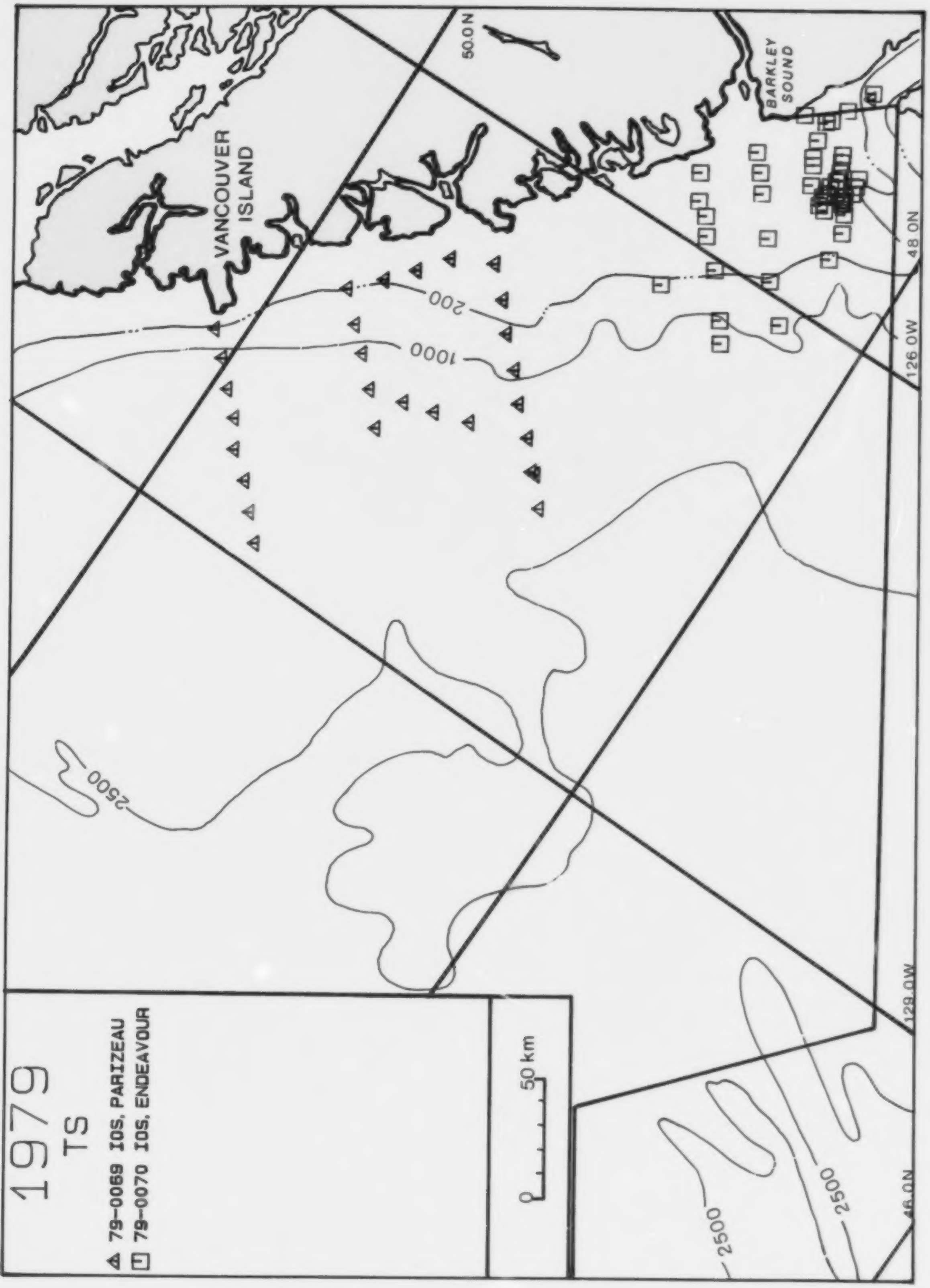

1979
TS
79-0039 PANDORA II.
IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

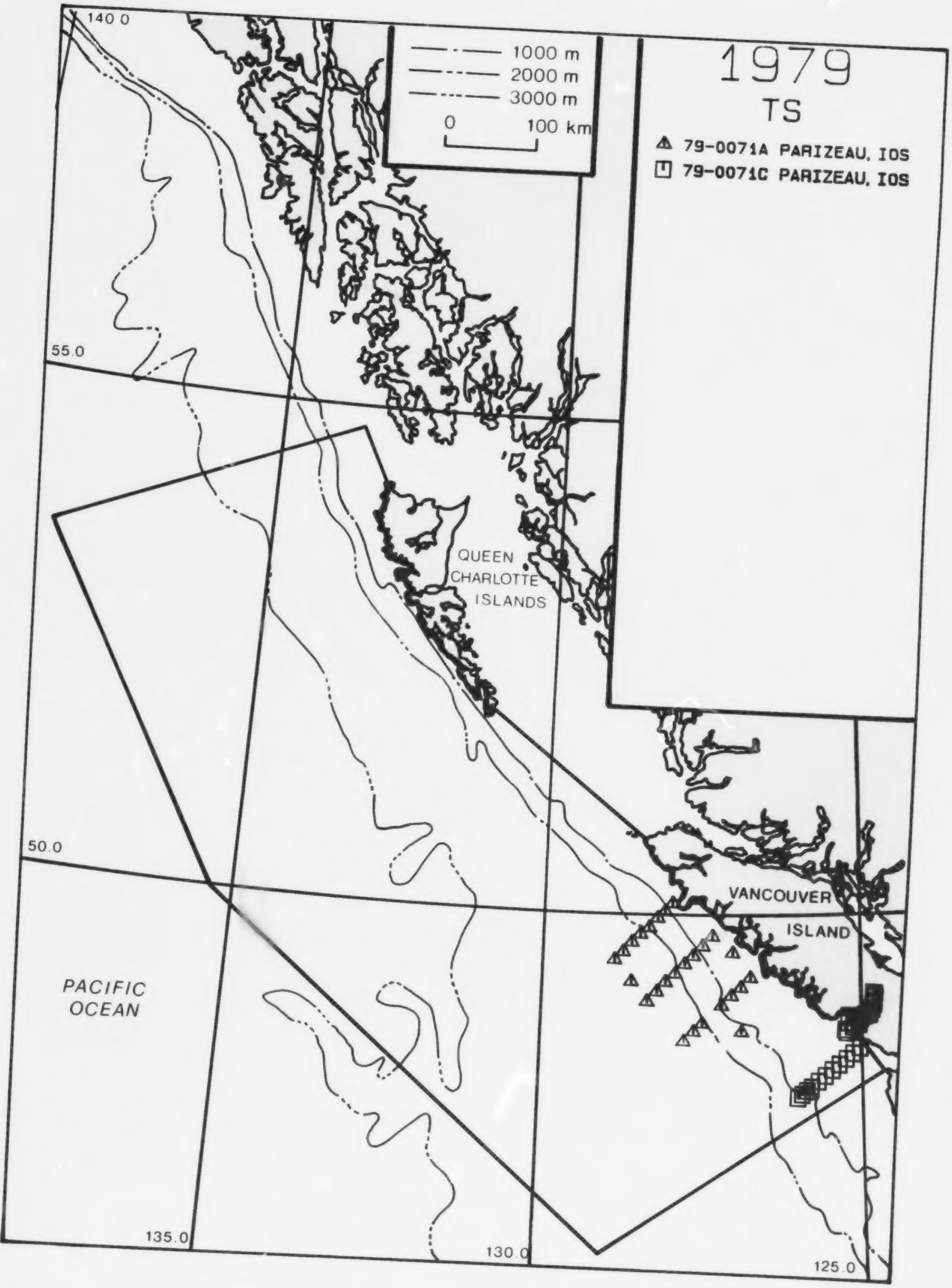

140.0
1000 m
2000 m
3000 m
0
100 km
1979
TS
⚠ 79-0068 VECTOR, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
50.0
PACIFIC
OCEAN
135.0
130.0
125.0

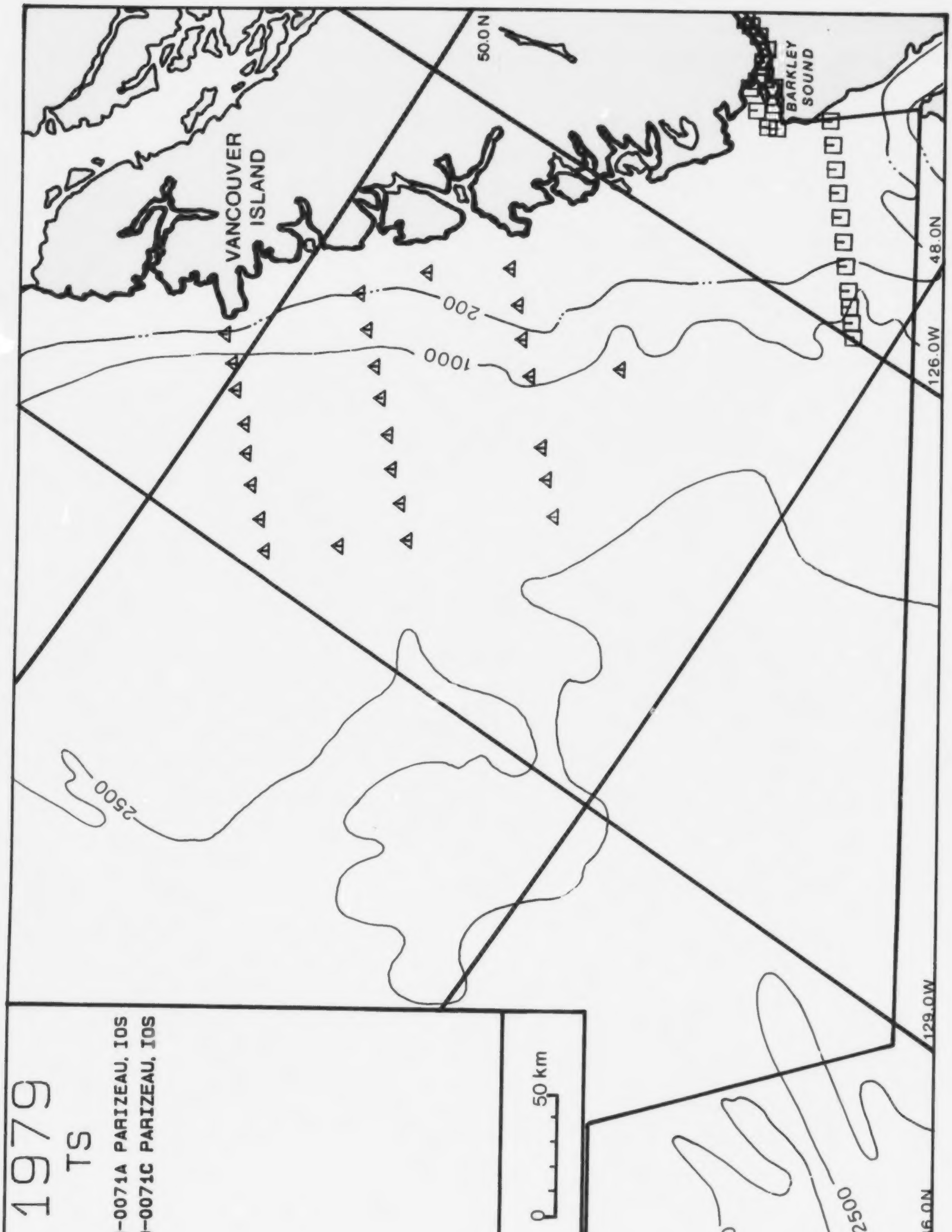

1979
TS
Δ 79-0068 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

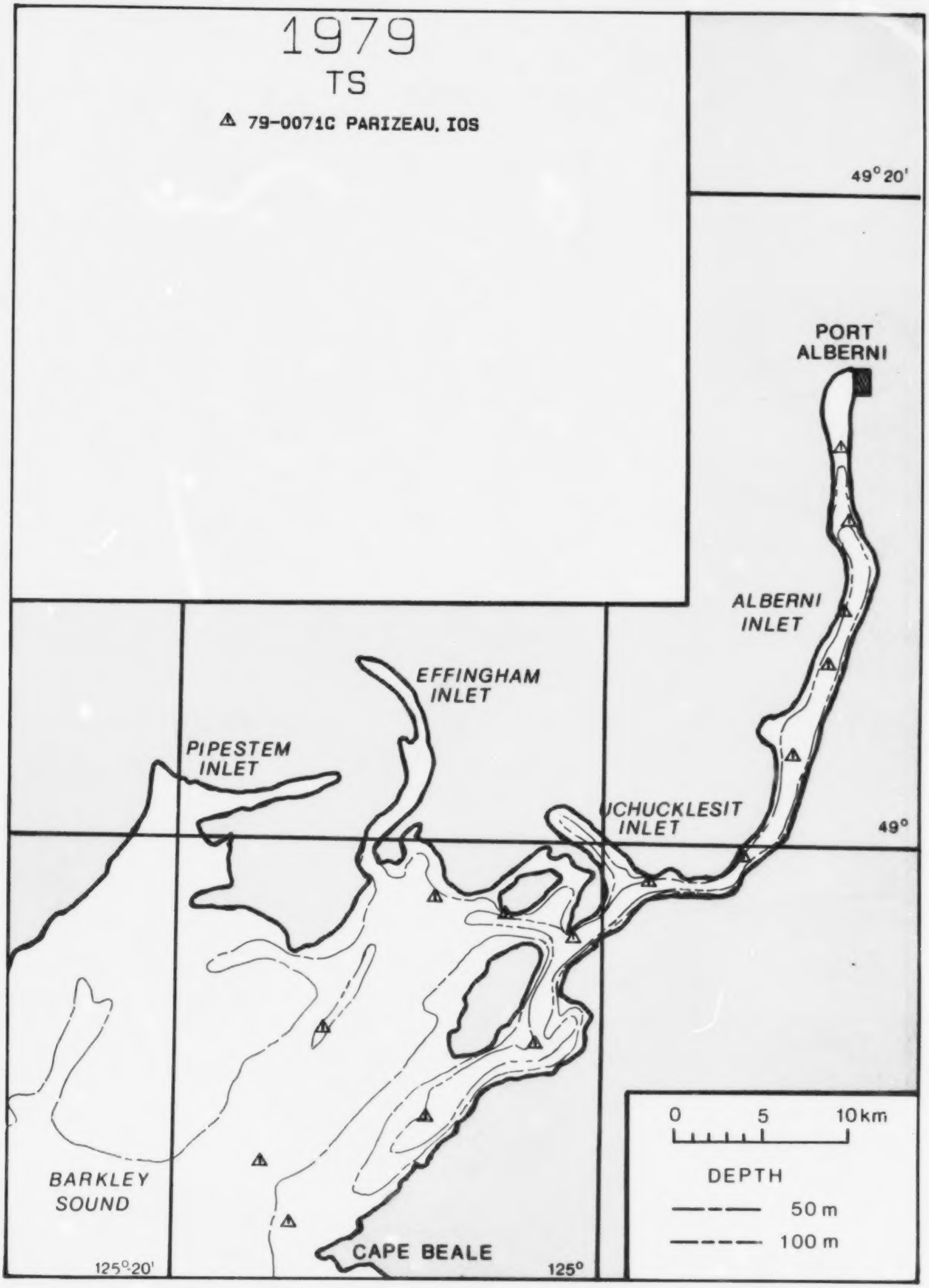

1979
TS
△ 79-0068 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

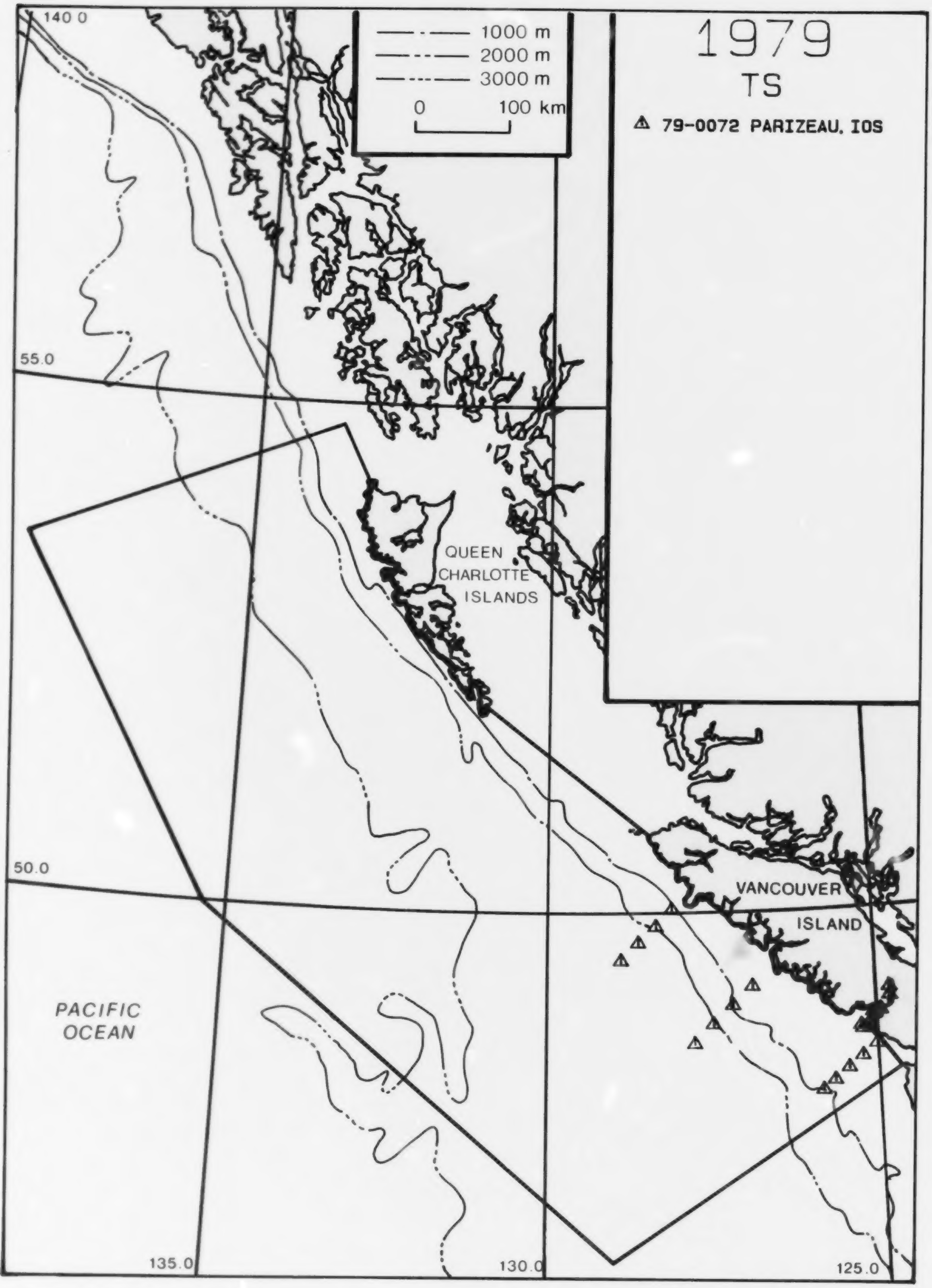

140.0
1000 m
2000 m
3000 m
0
100 km
1979
TS
△ 79-0069 IOS, PARIZEAU
☐ 79-0070 IOS, ENDEAVOUR
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

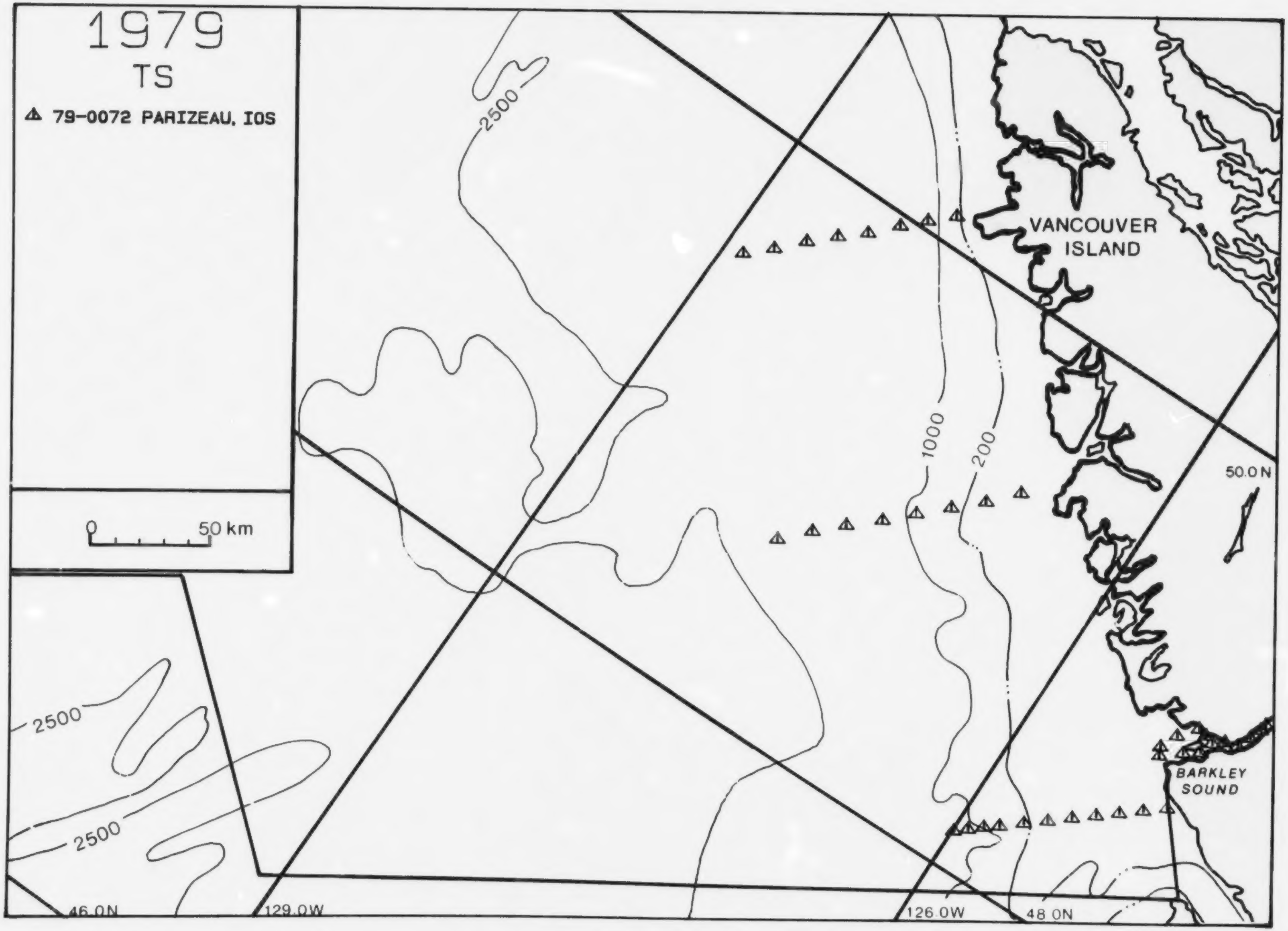

1979
TS
79-0069 IOS, PARIZEAU
79-0070 IOS, ENDEAVOUR
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
128.0W
200
1000
2500
2500
2500

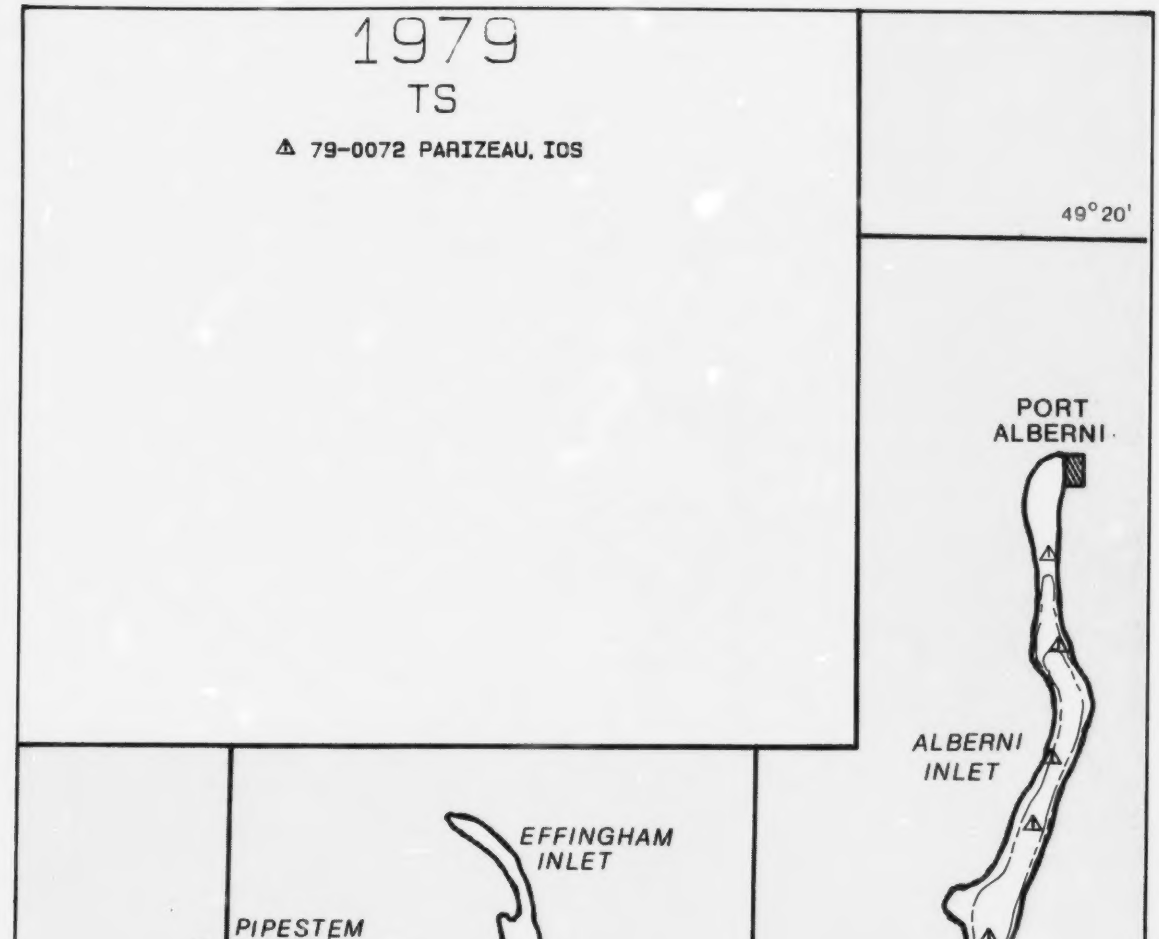

1979
TS
▲ 79-0071A PARIZEAU, IOS
☐ 79-0071C PARIZEAU, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

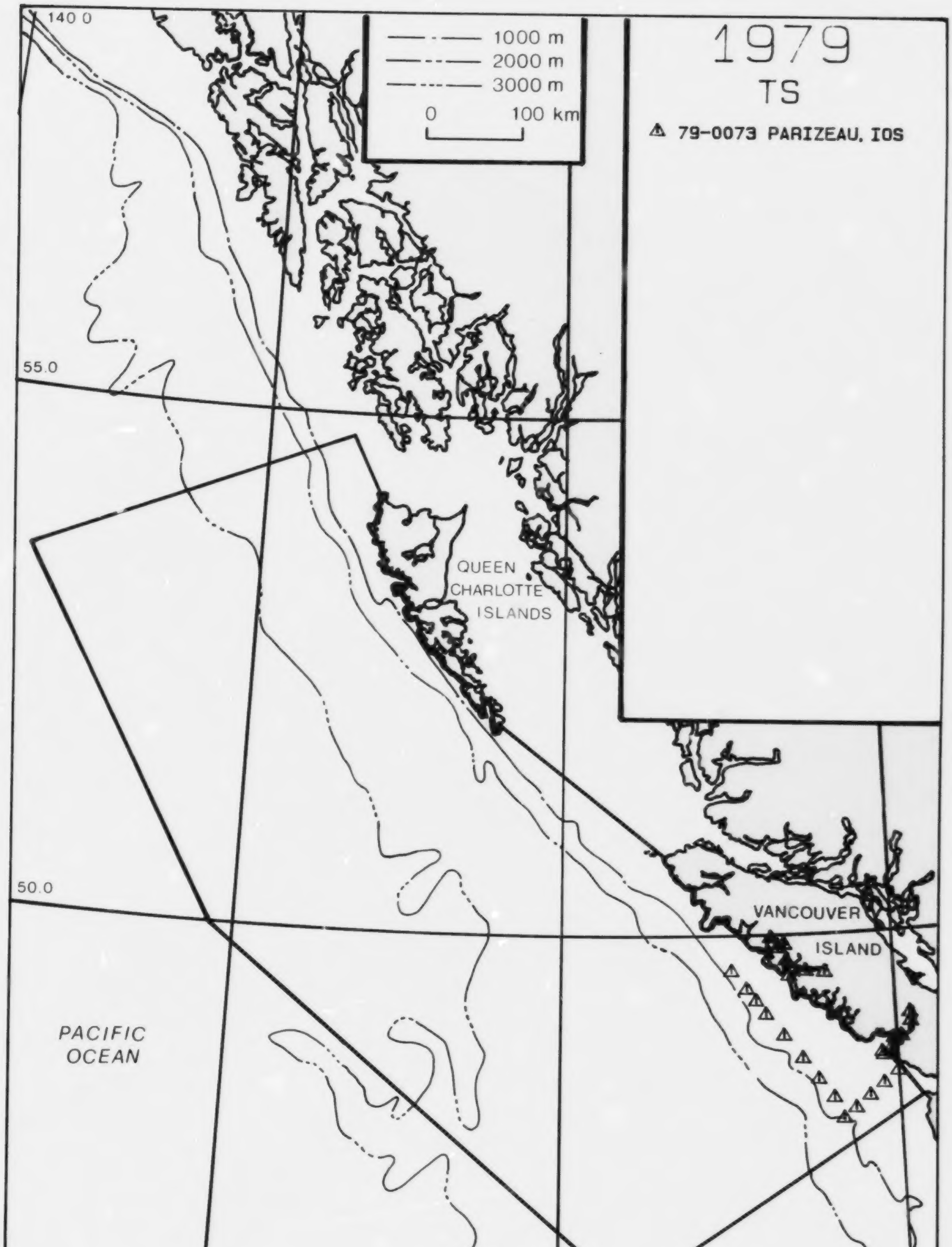

1979
TS
▲ 79-0071A PARIZEAU, IOS
☐ 79-0071C PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

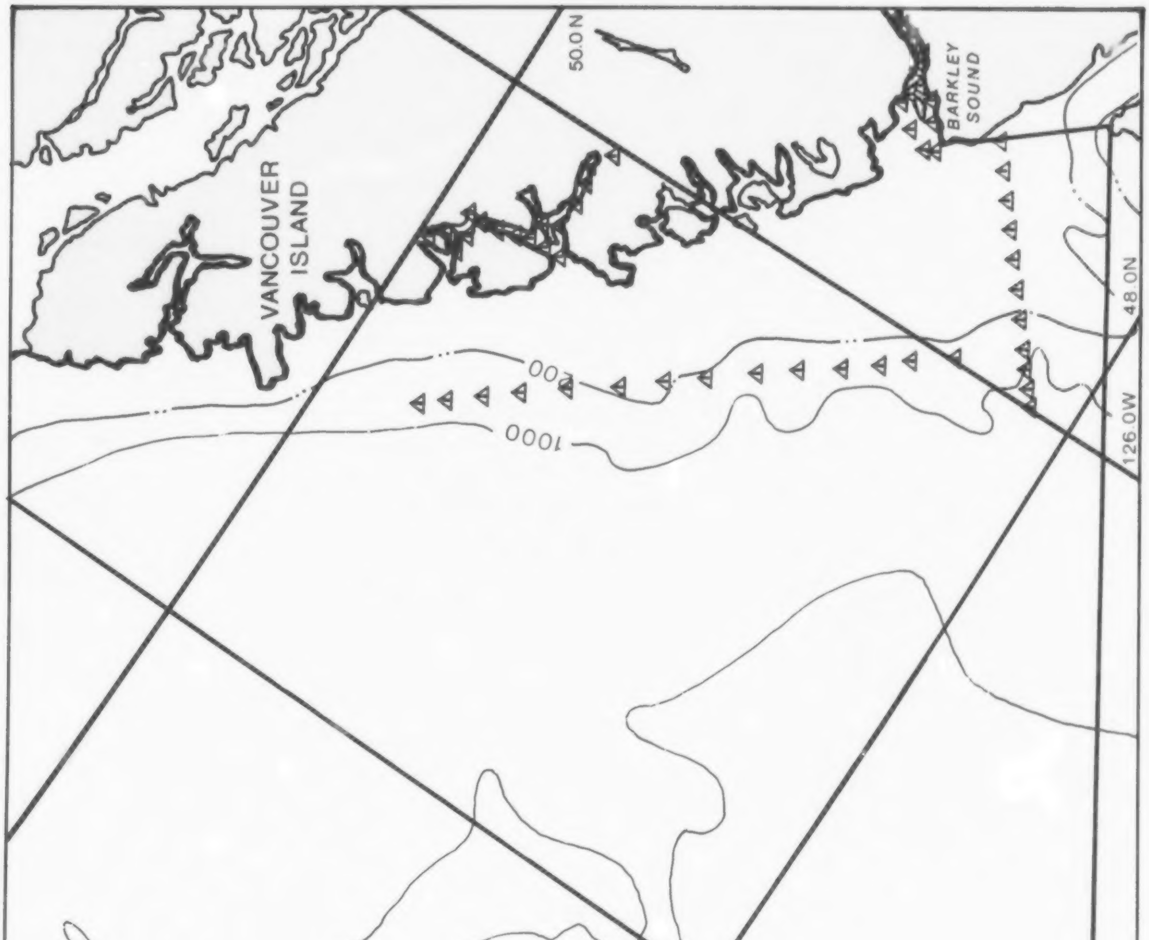

1979
TS
⚠ 79-0071C PARIZEAU, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

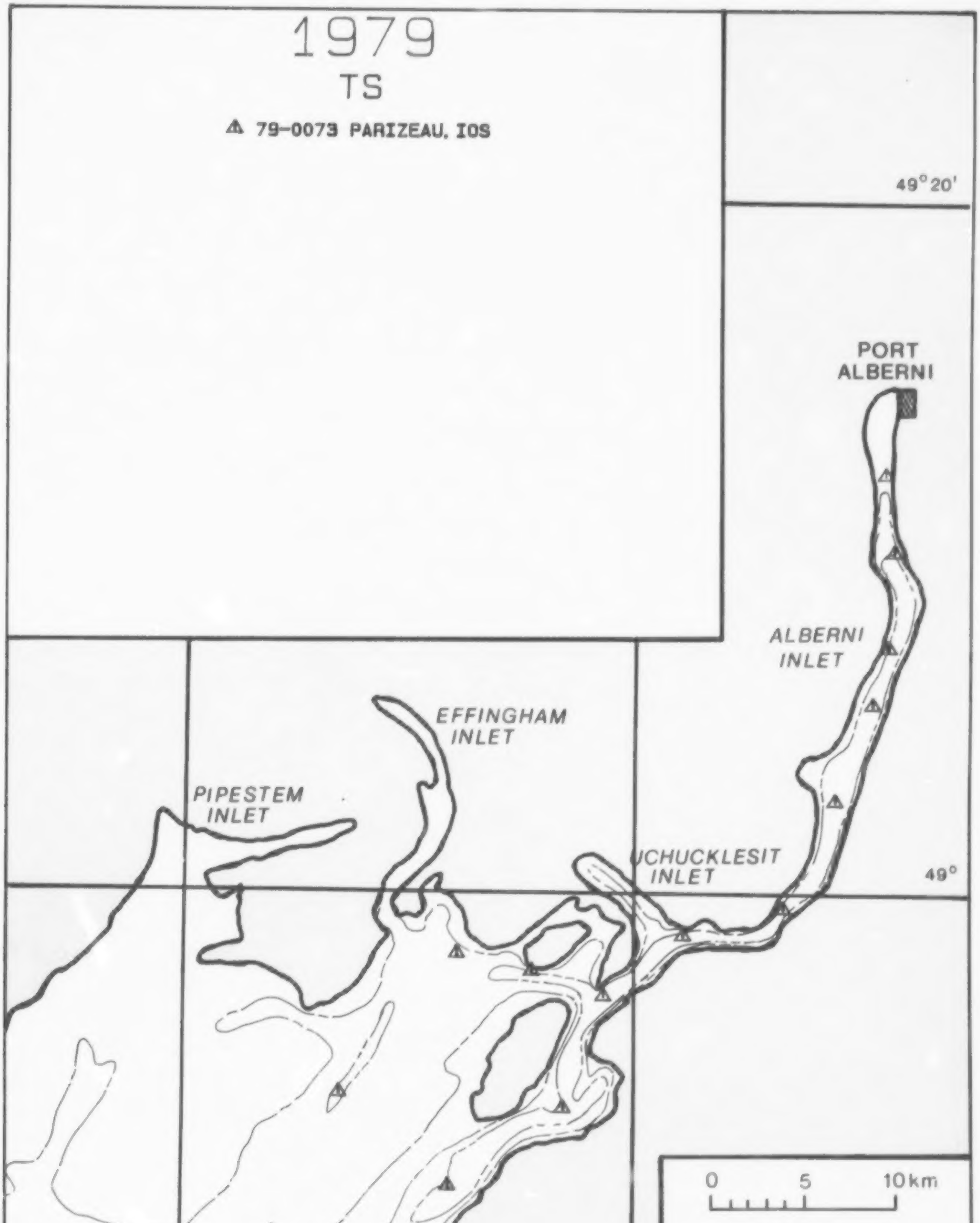

1000 m
2000 m
3000 m
0
100 km
1979
TS
⚠ 79-0072 PARIZEAU, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

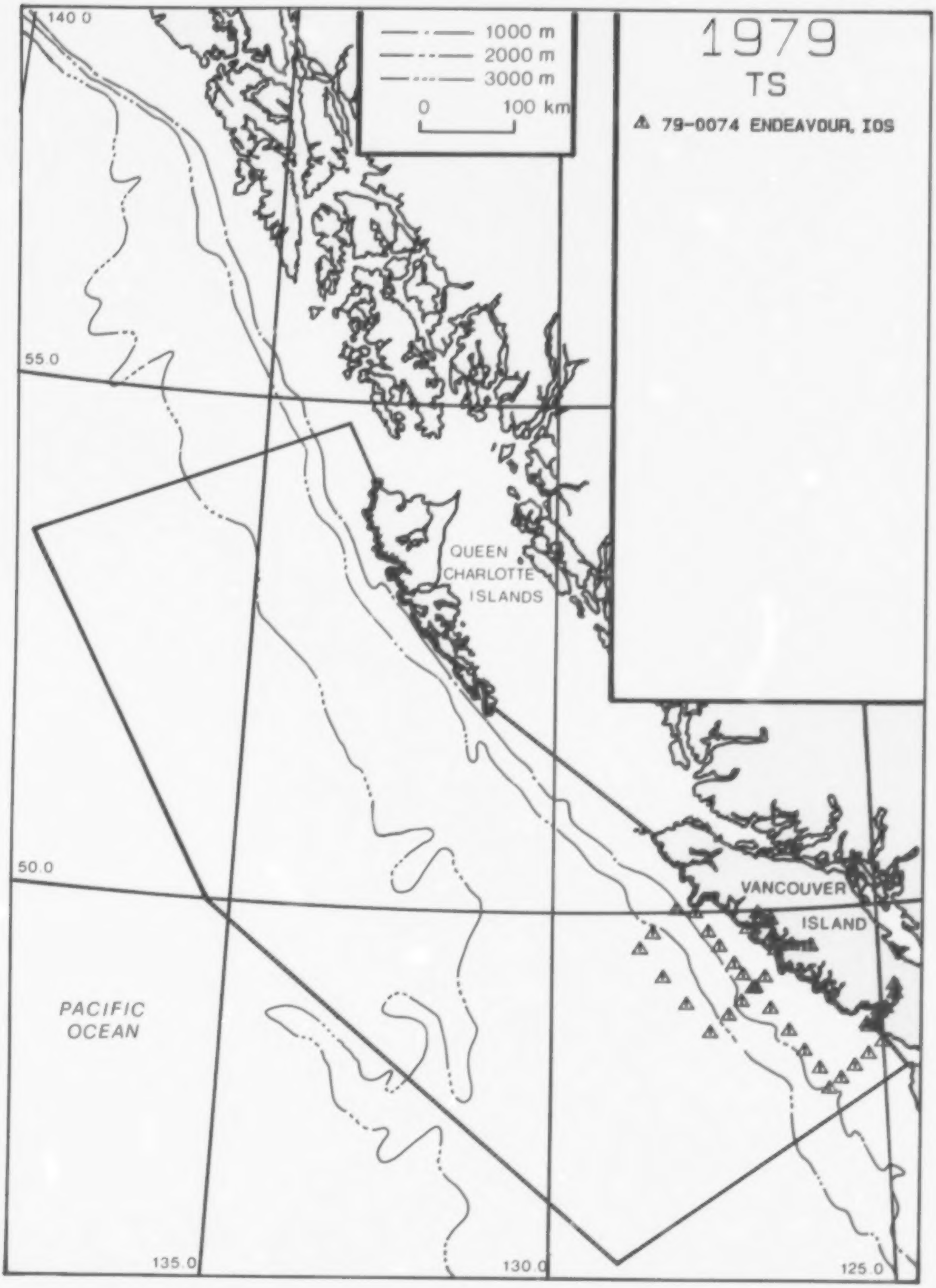

1979
TS
79-0072 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
2500
2500
1000
200
50.0 N
48.0N
46.0N
129.0W
126.0W

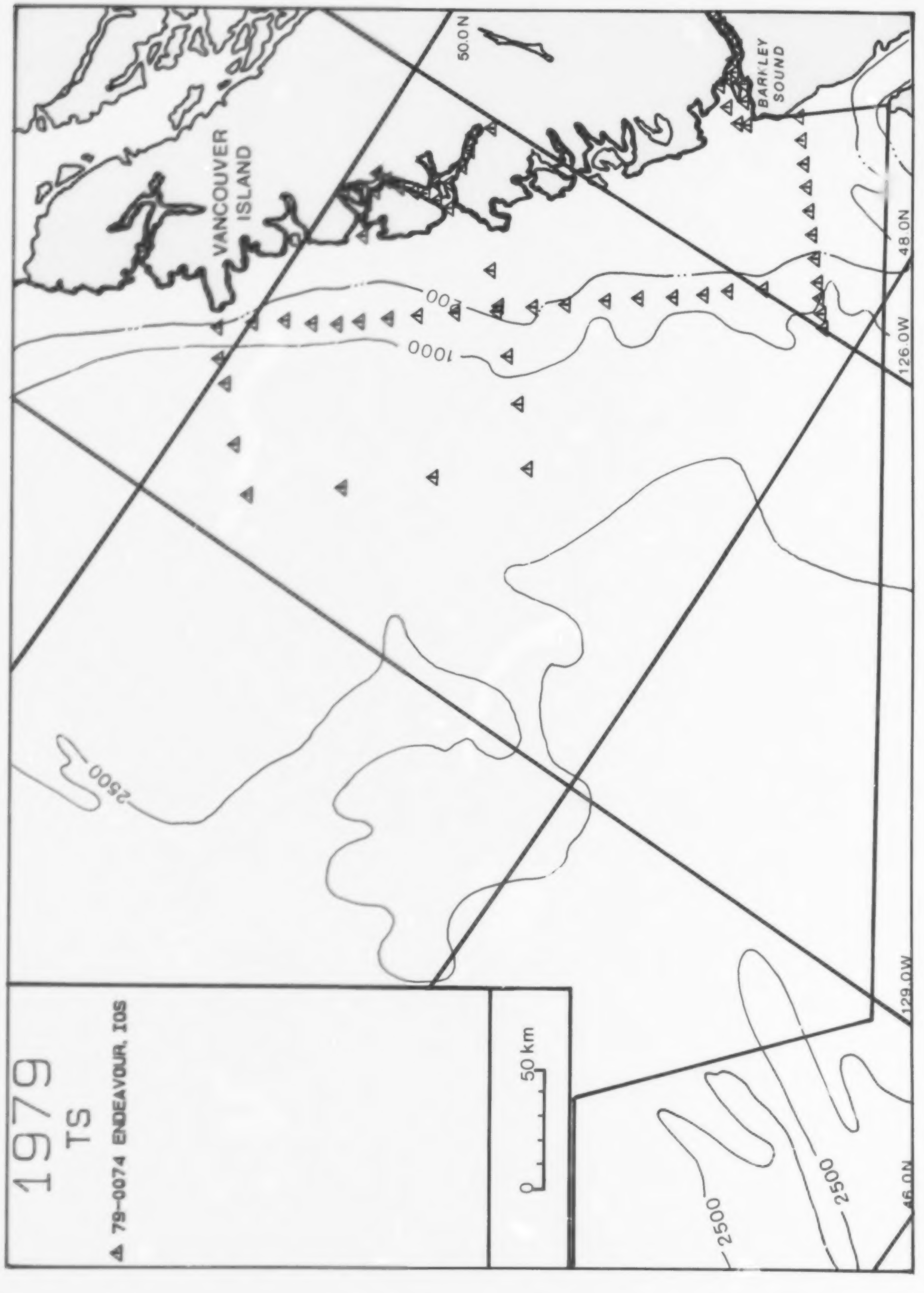

1979
TS
△ 79-0072 PARIZEAU, IOS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

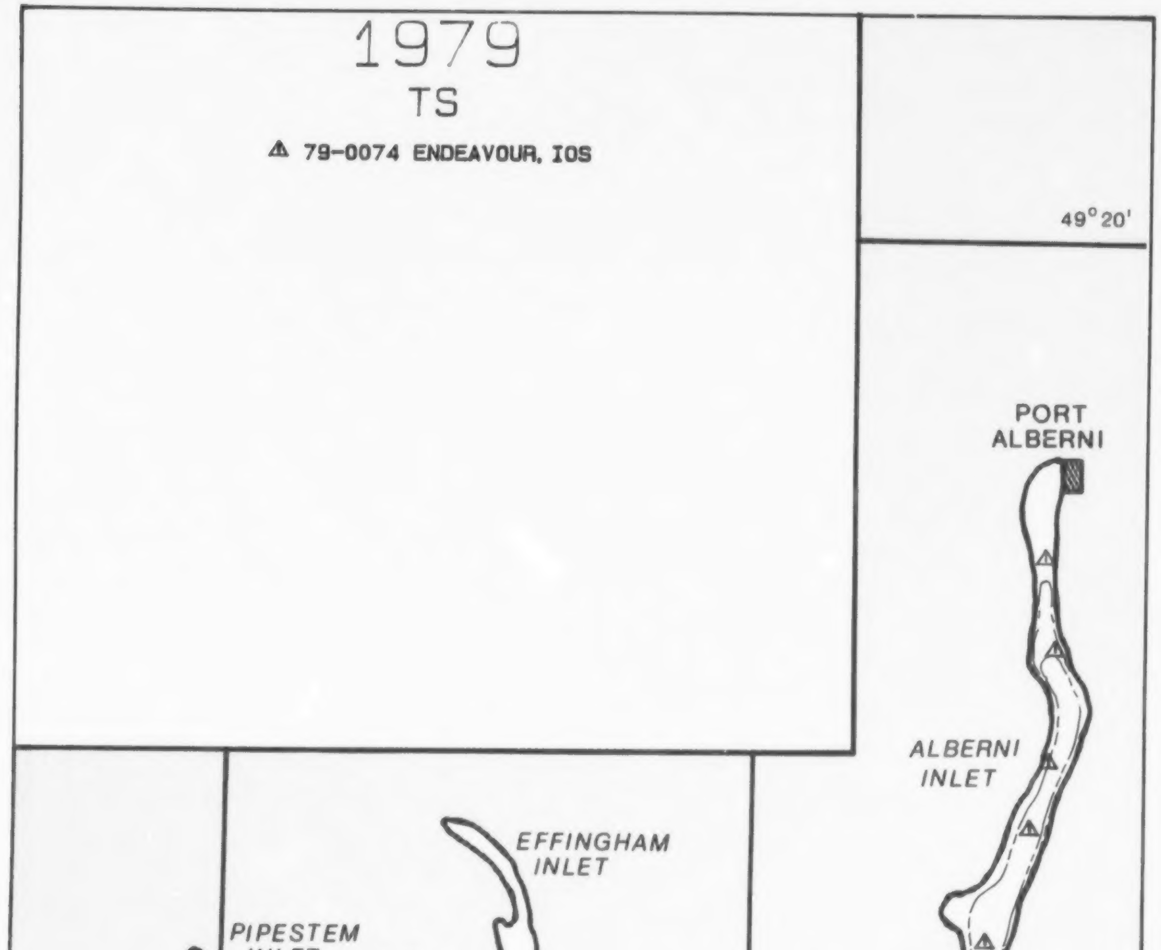

1979
TS
⚠ 79-0073 PARIZEAU, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

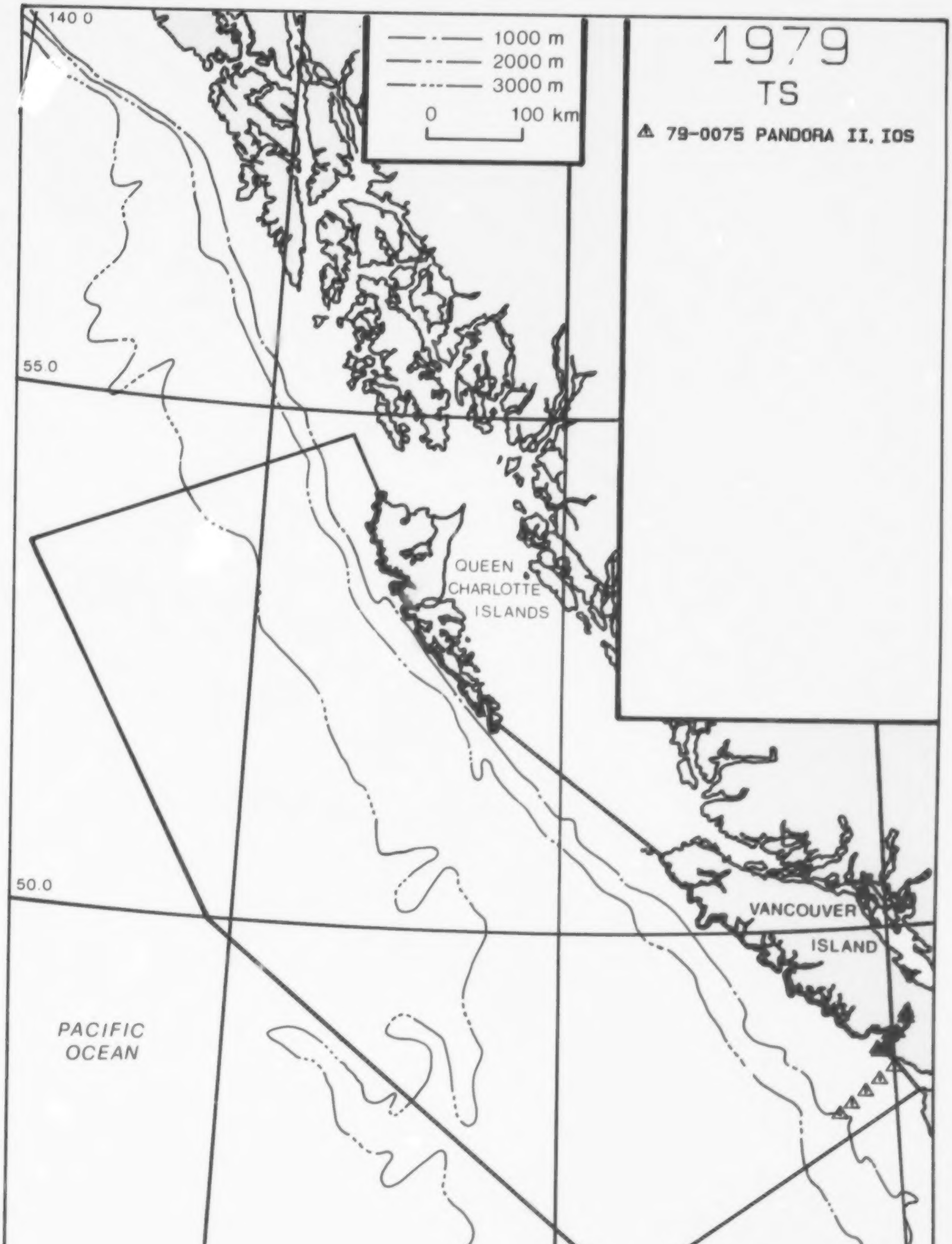

1979
TS
Δ 79-0073 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0 N
46.0 N
126.0W
129.0W
200
1000
2500
2500
2500
2500

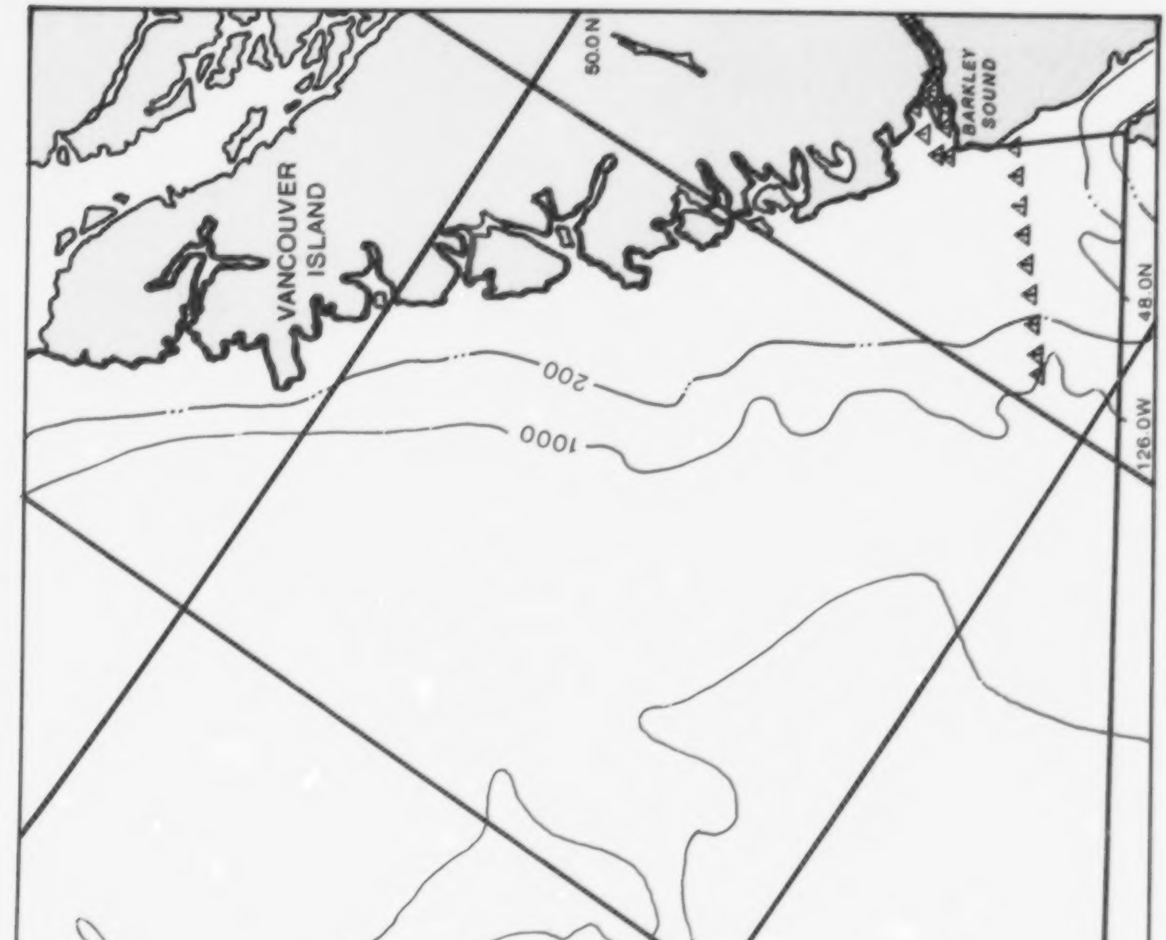

1979
TS
⚠ 79-0073 PARIZEAU, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125° 20'
125°
0
5
10 km
DEPTH
50 m
100 m

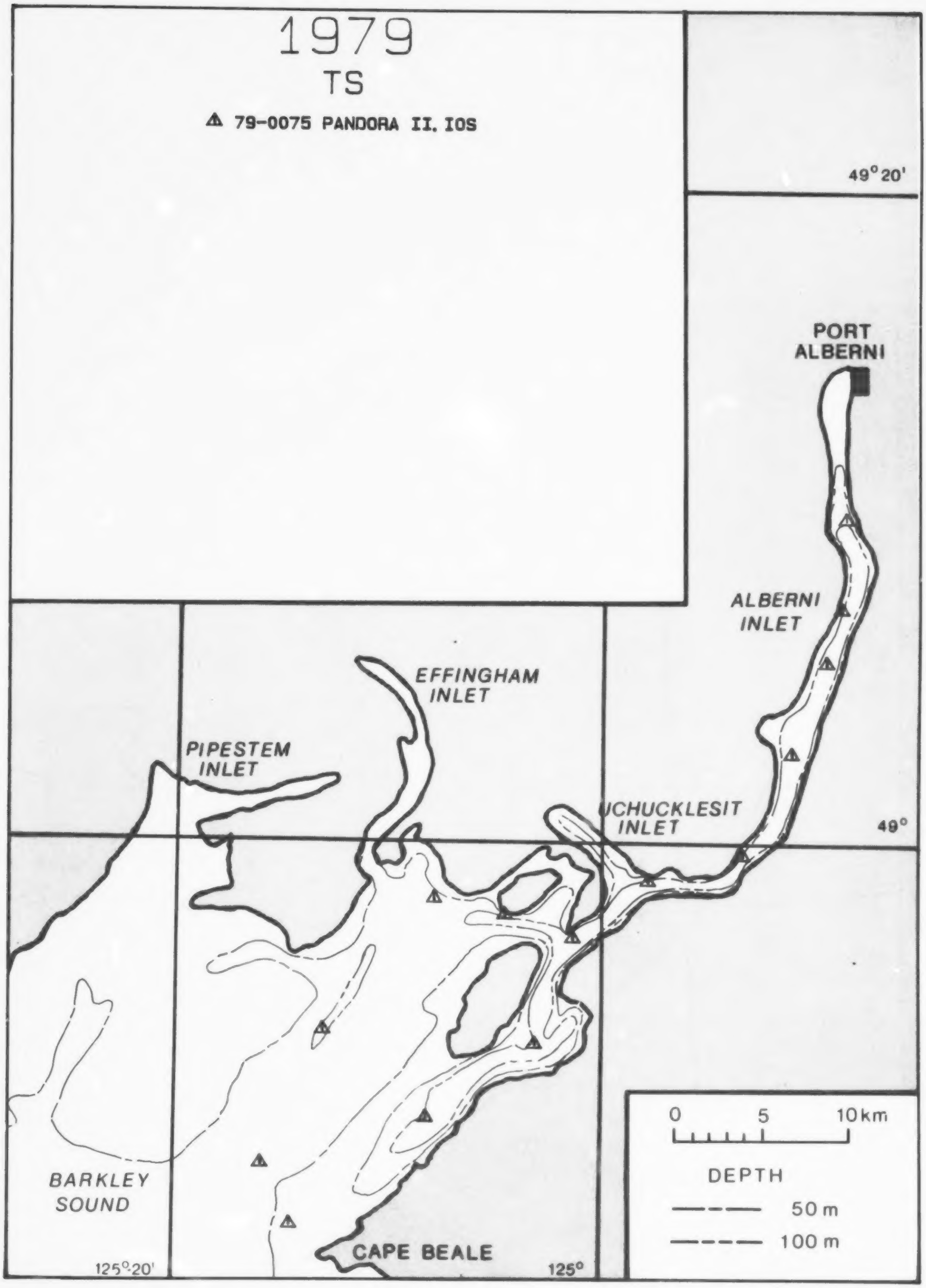

1000 m
2000 m
3000 m
0
100 km
1979
TS
▲ 79-0074 ENDEAVOUR, IOS
140.0
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

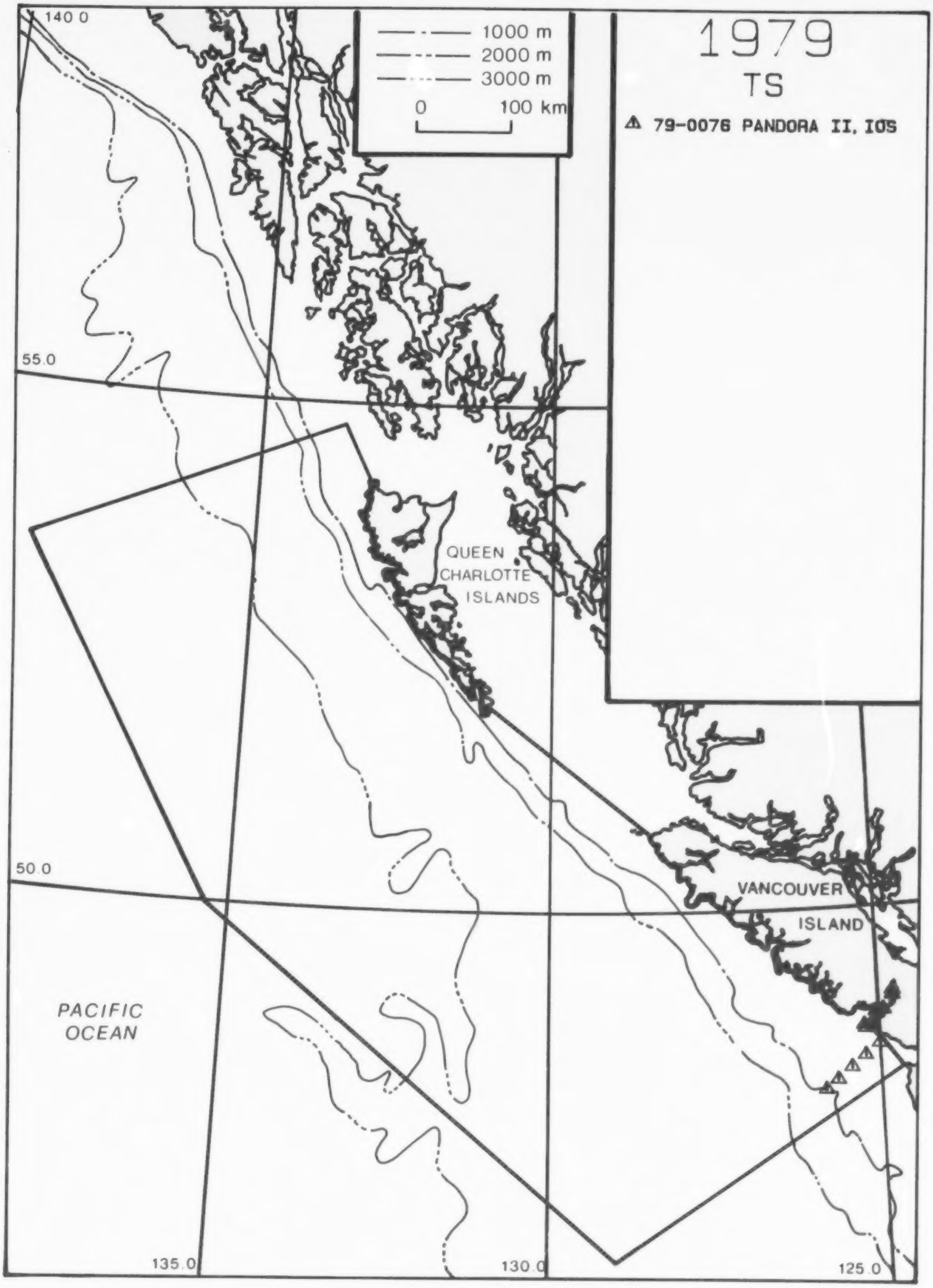

1979
TS
79-0074 ENDEAVOUR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0 N
46.0 N
126.0 W
129.0 W
200
1000
2500
2500
2500
2500

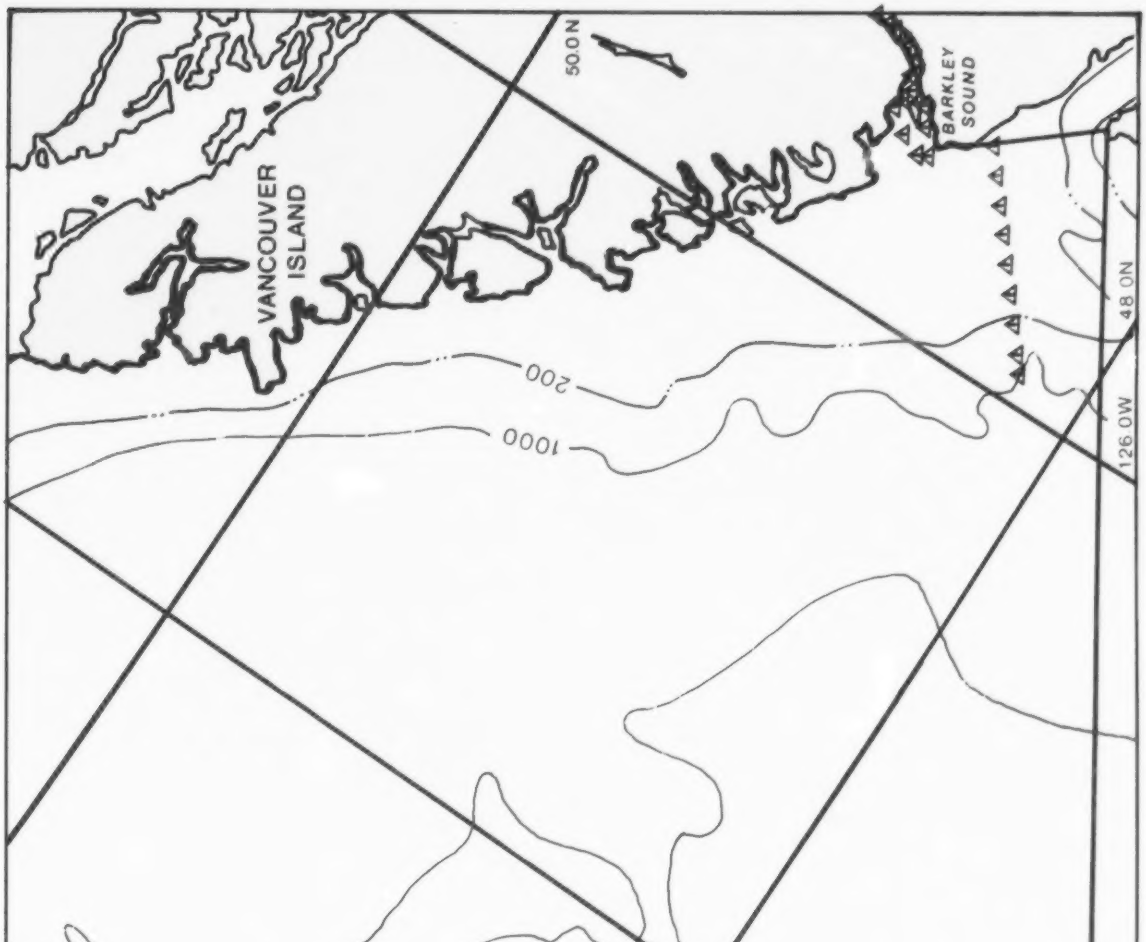

1979
TS
⚠ 79-0074 ENDEAVOUR, IOS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

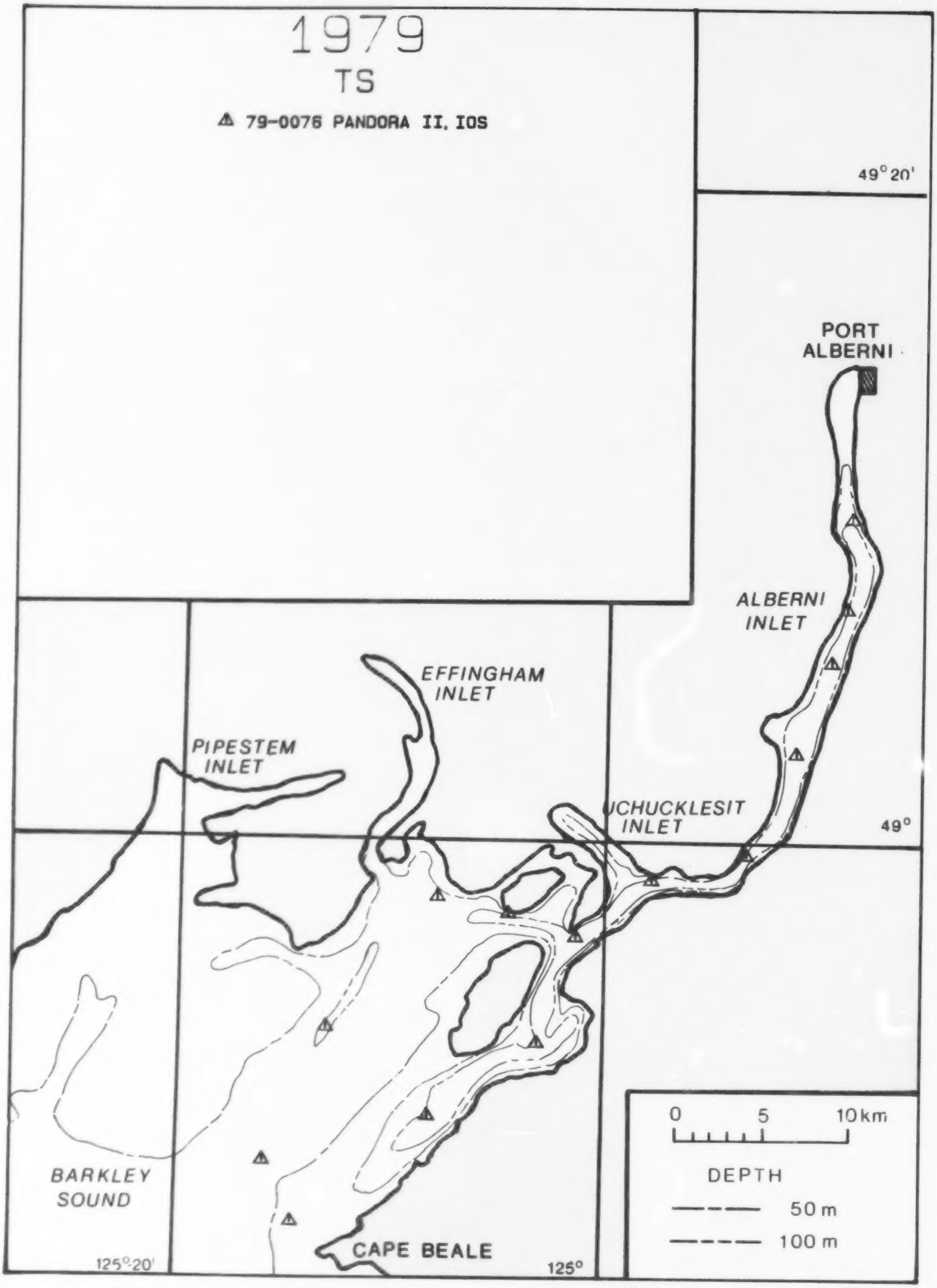

140.0
1000 m
2000 m
3000 m
0
100 km
1979
TS
⚠ 79-0075 PANDORA II. IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

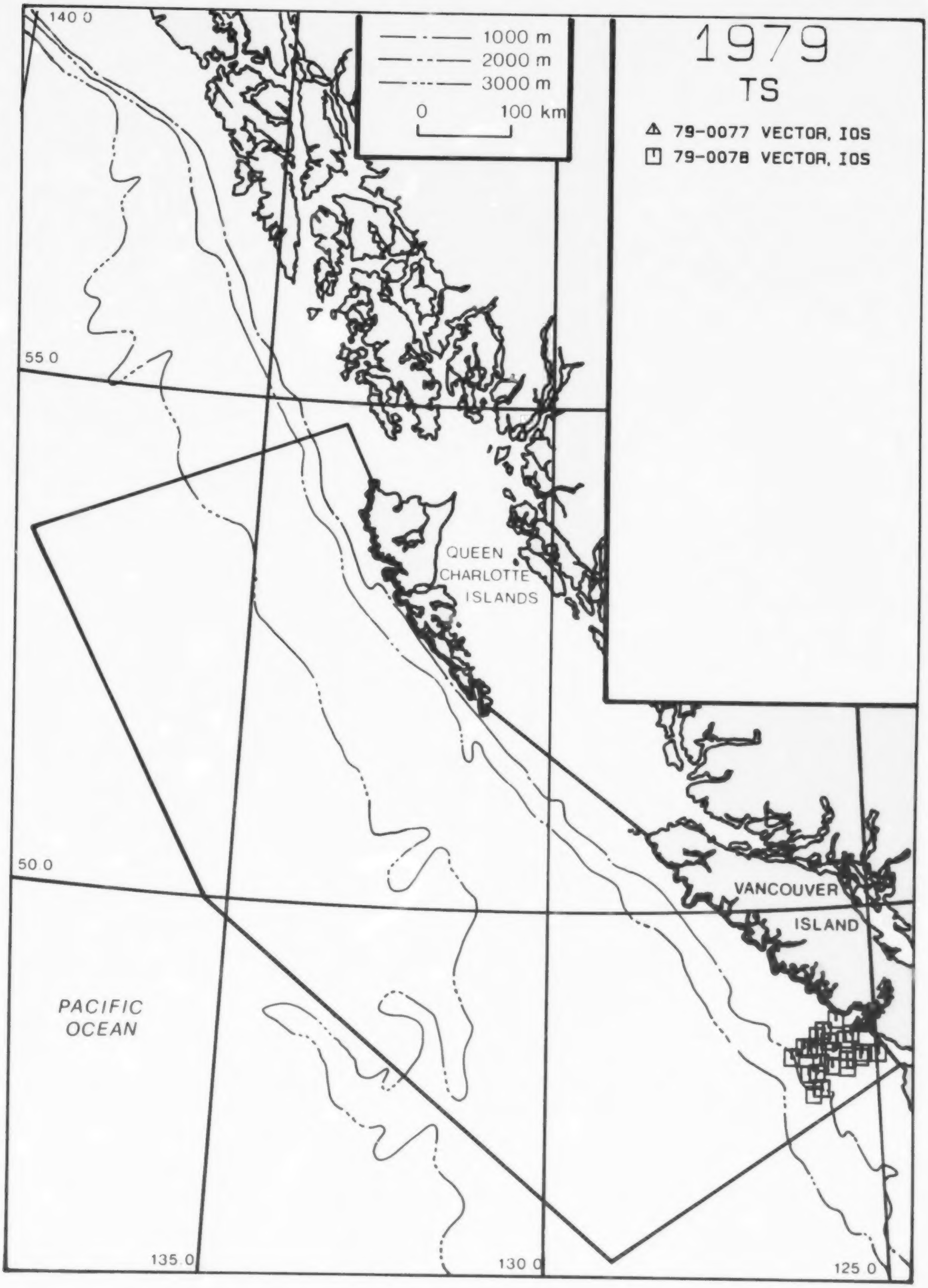

1979
TS
79-0075 PANDORA II. IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

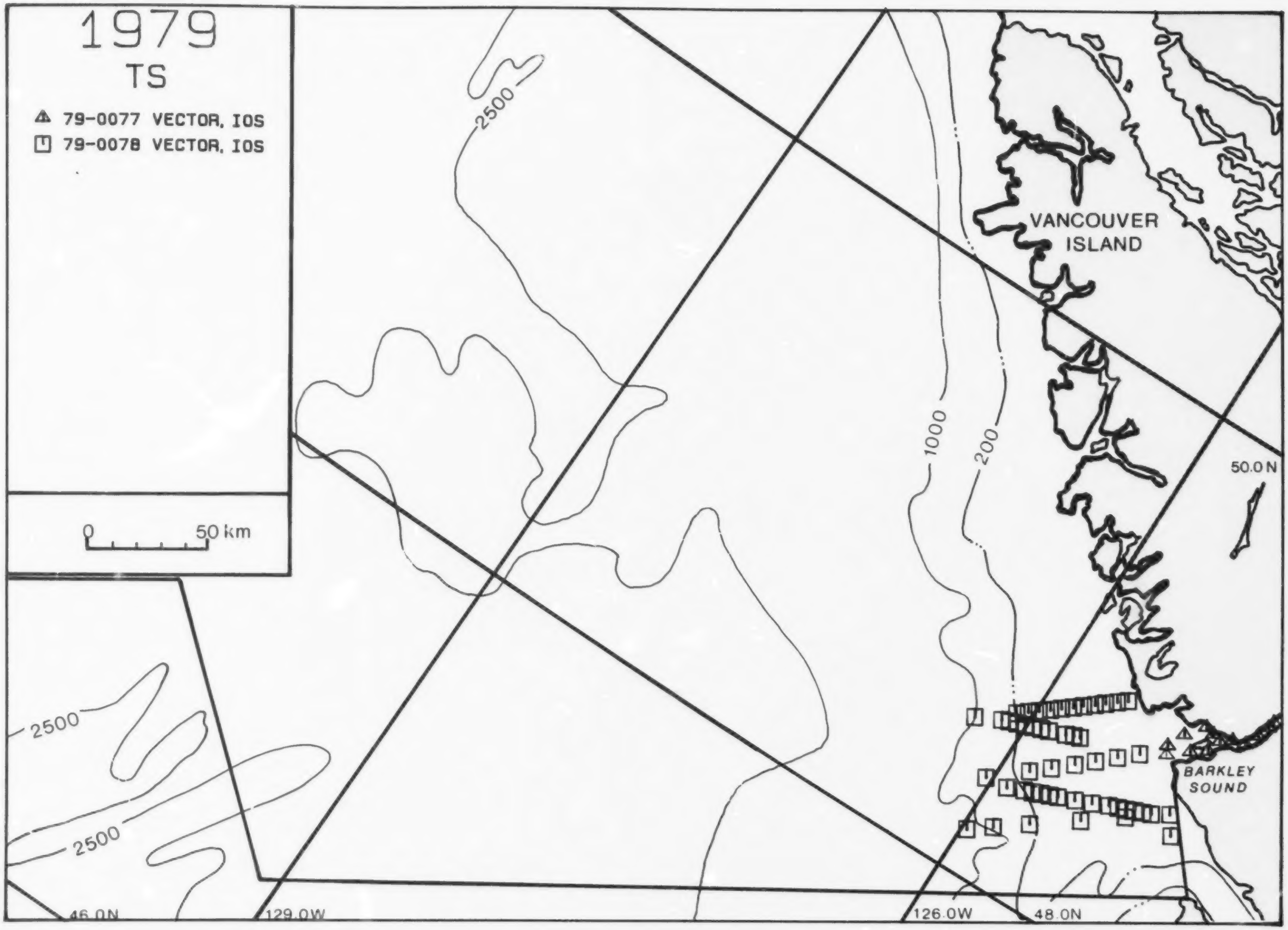

1979
TS
⚠ 79-0075 PANDORA II. IOS
49° 20'
PORT
ALBERNI
ALBERNI
INLET
EFFINGHAM
INLET
PIPESTEM
INLET
UCHUCKLESIT
INLET
49°
BARKLEY
SOUND
CAPE BEALE
125° 20'
125°
0 5 10 km
DEPTH
50 m
100 m

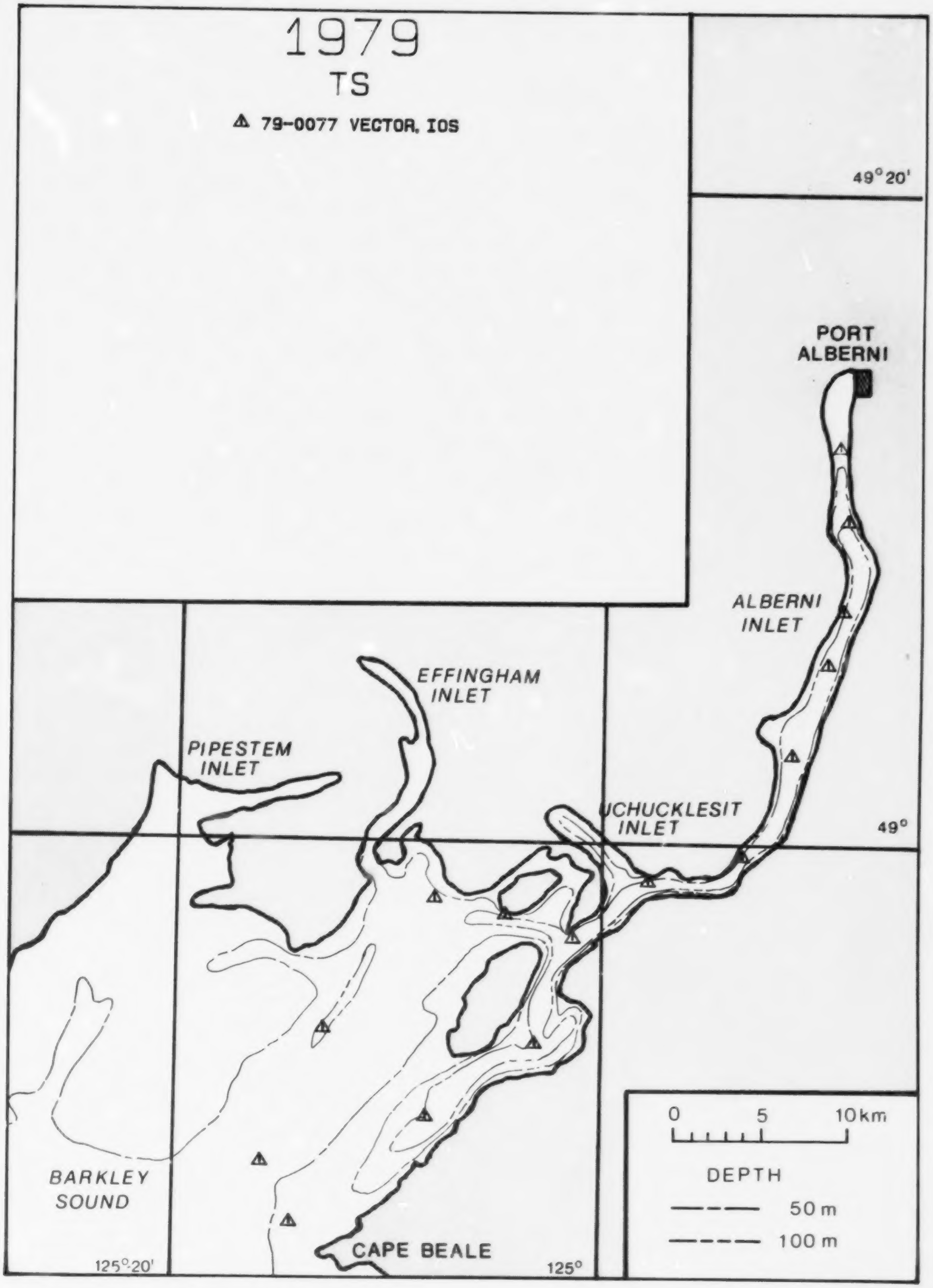

140.0
1000 m
2000 m
3000 m
0
100 km
1979
TS
⚠ 79-0076 PANDORA II, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

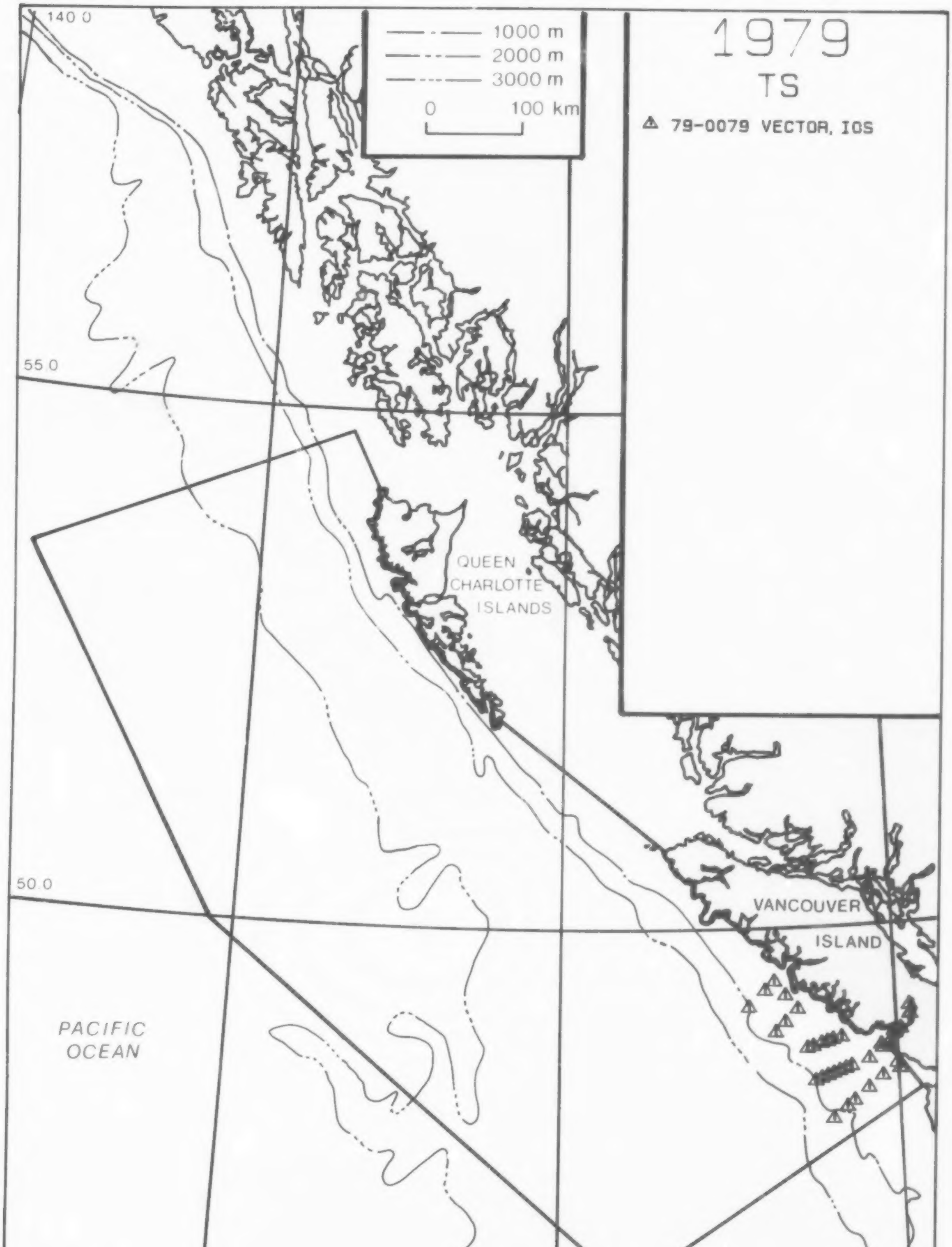

1979
TS
79-0076 PANDORA II, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0 N
46.0 N
126.0 W
129.0 W
200
1000
2500
2500
2500
2500

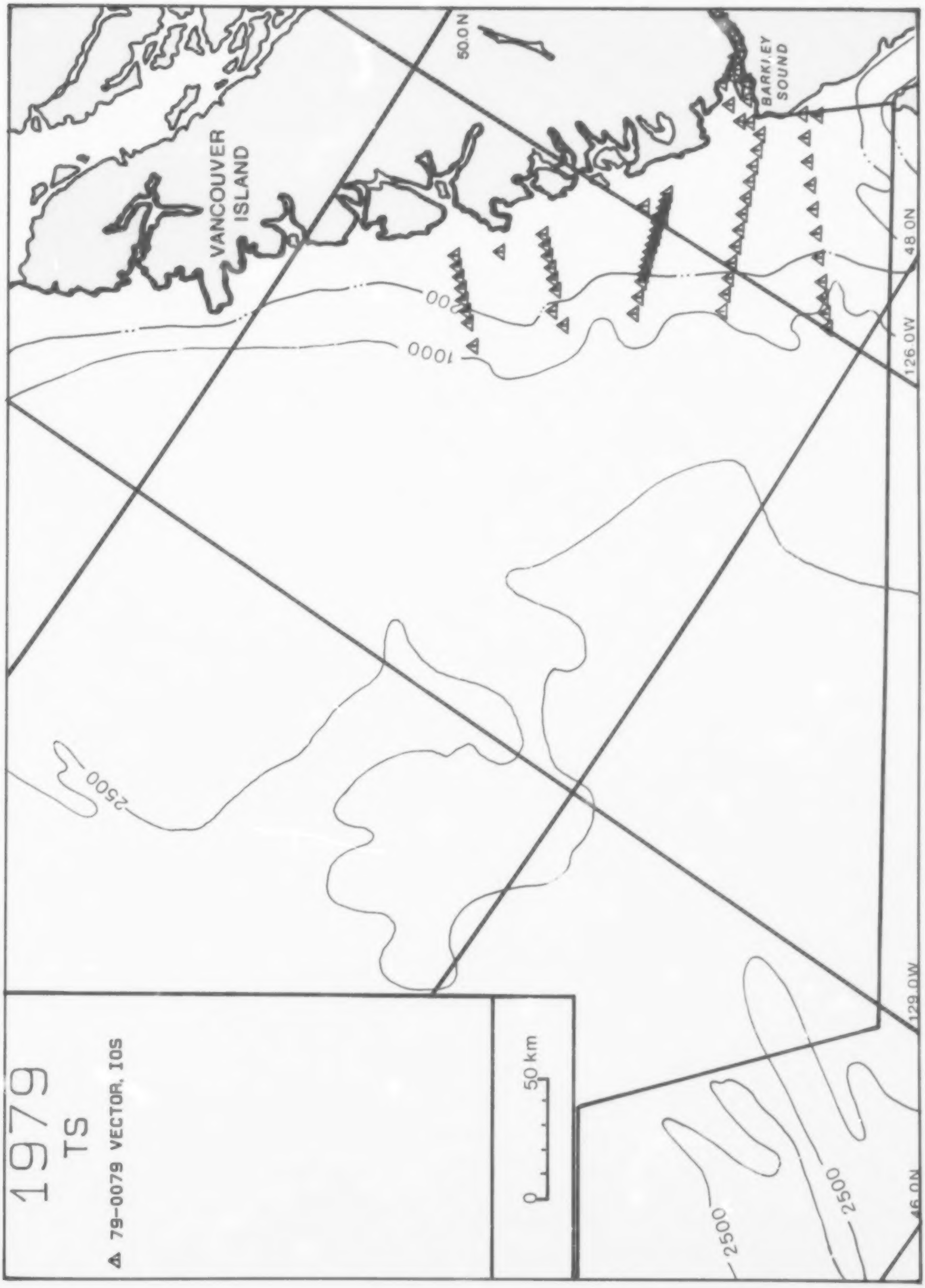

1979
TS
△ 79-0076 PANDORA II, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

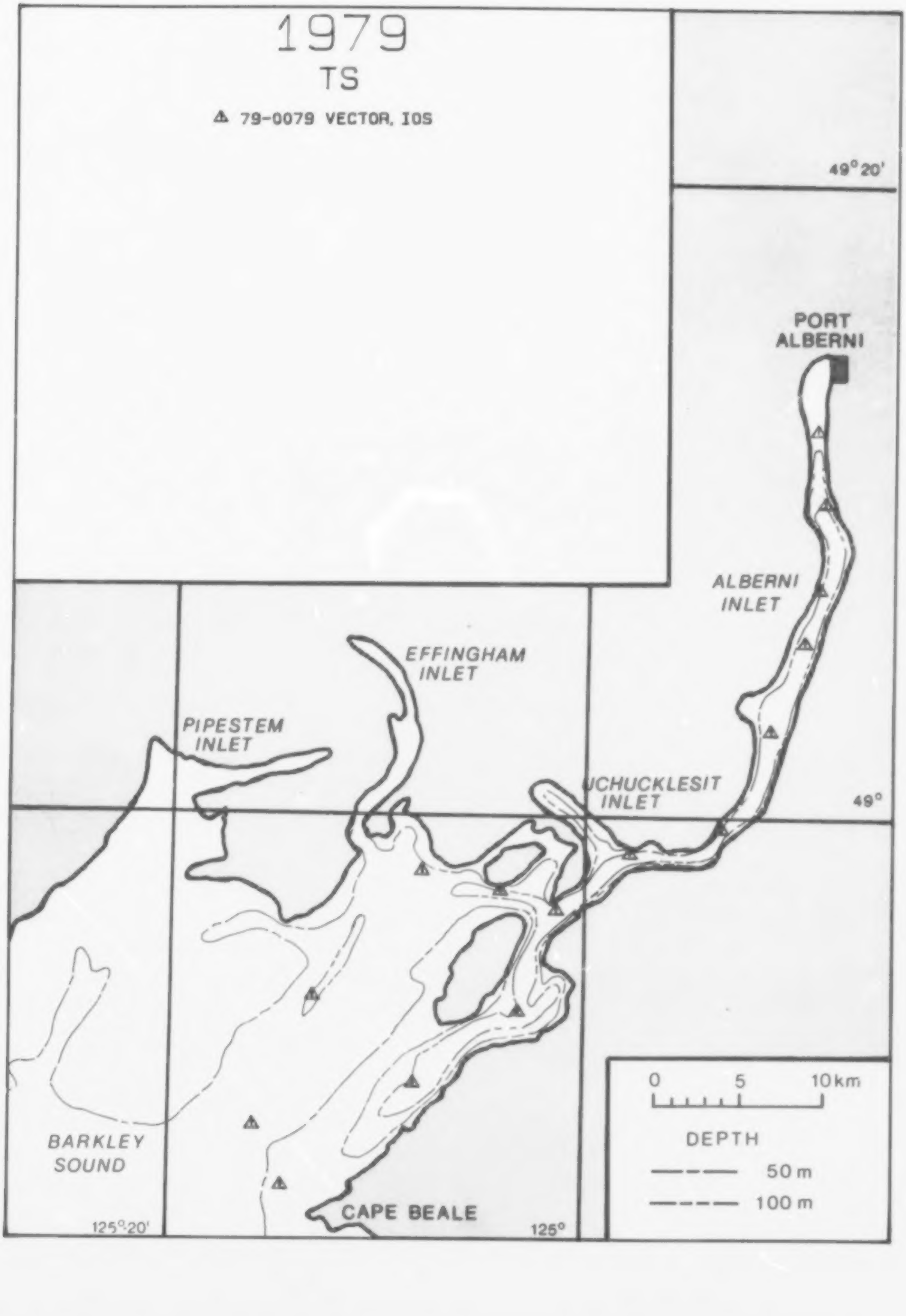

1979
TS
⚠ 79-0077 VECTOR, IOS
☐ 79-0078 VECTOR, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

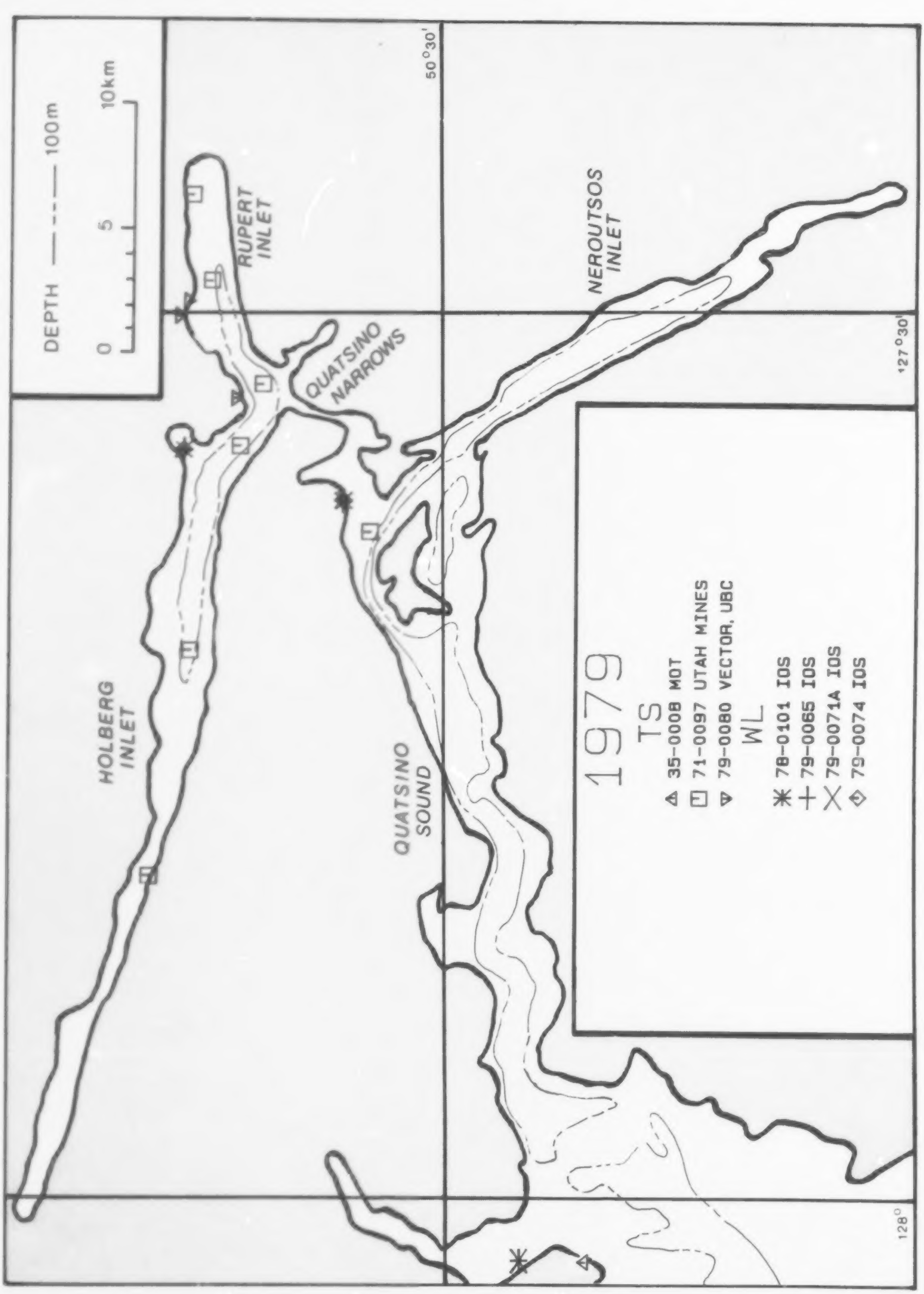

1979
TS
▲ 79-0077 VECTOR, IOS
☐ 79-0078 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
2500
1000
200
2500
2500
50.0N
46.0N
129.0W
126.0W
48.0N

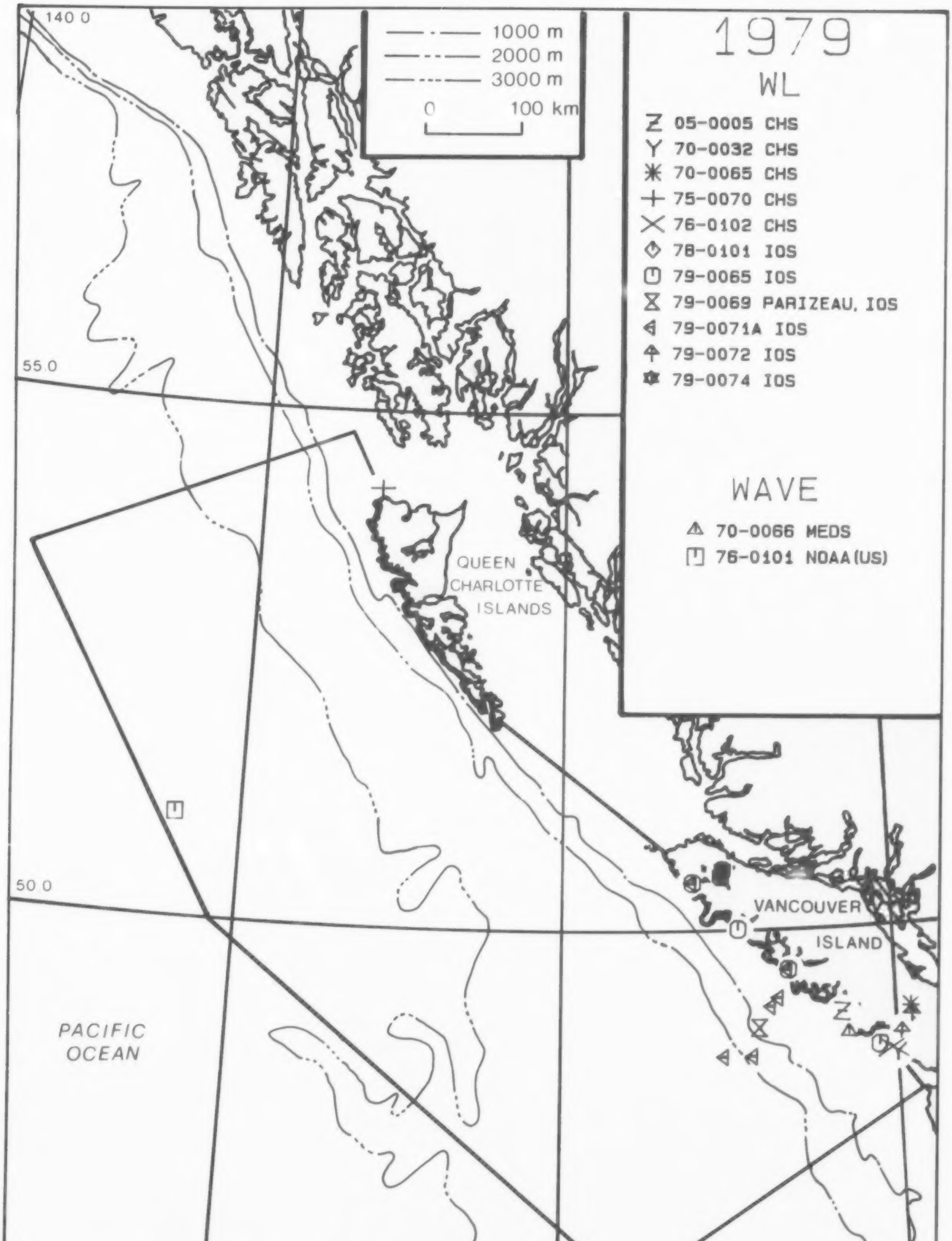

1979
TS
△ 79-0077 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

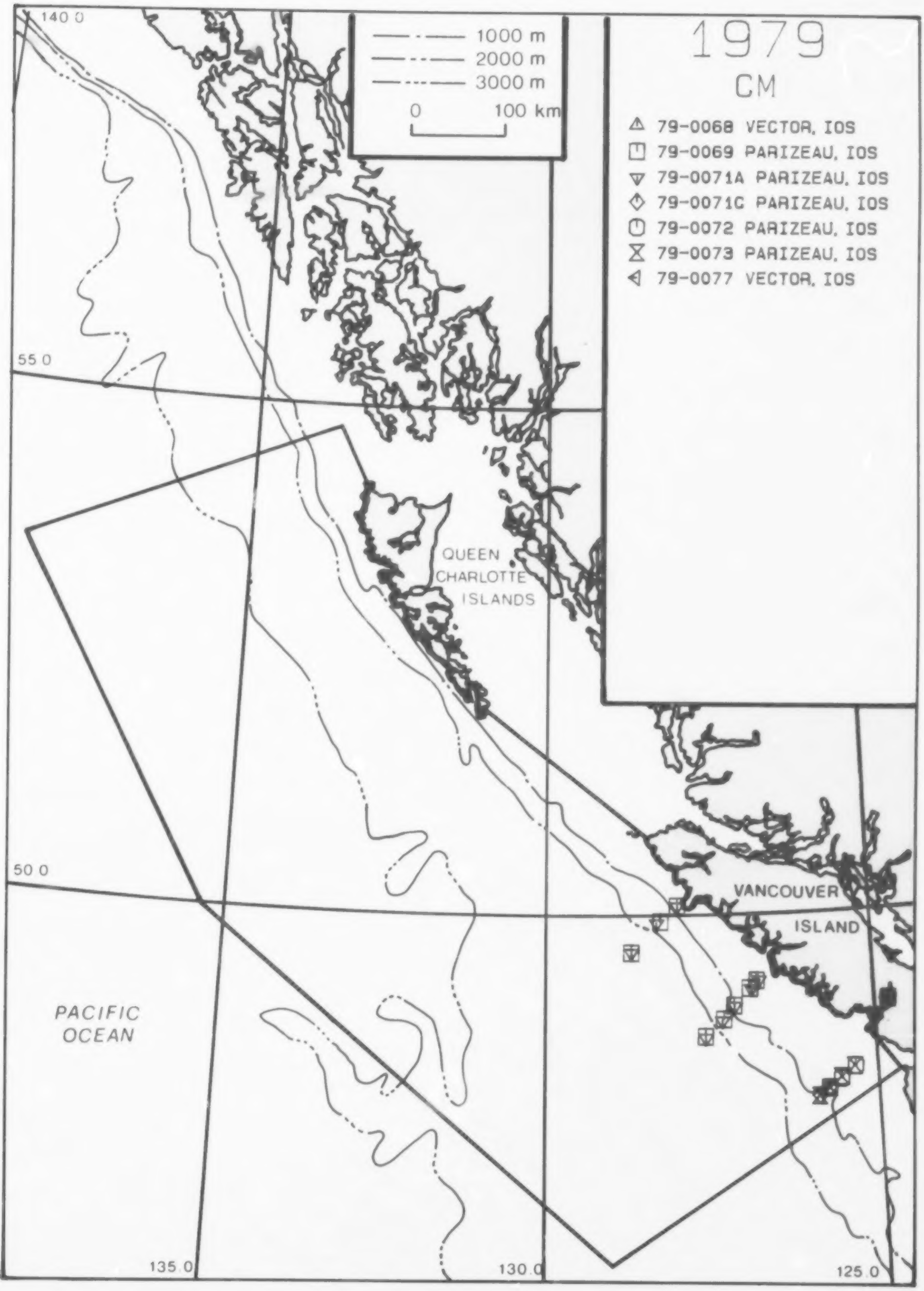

140.0
1000 m
2000 m
3000 m
0
100 km
1979
TS
△ 79-0079 VECTOR, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
50.0
PACIFIC
OCEAN
135.0
130.0
125.0

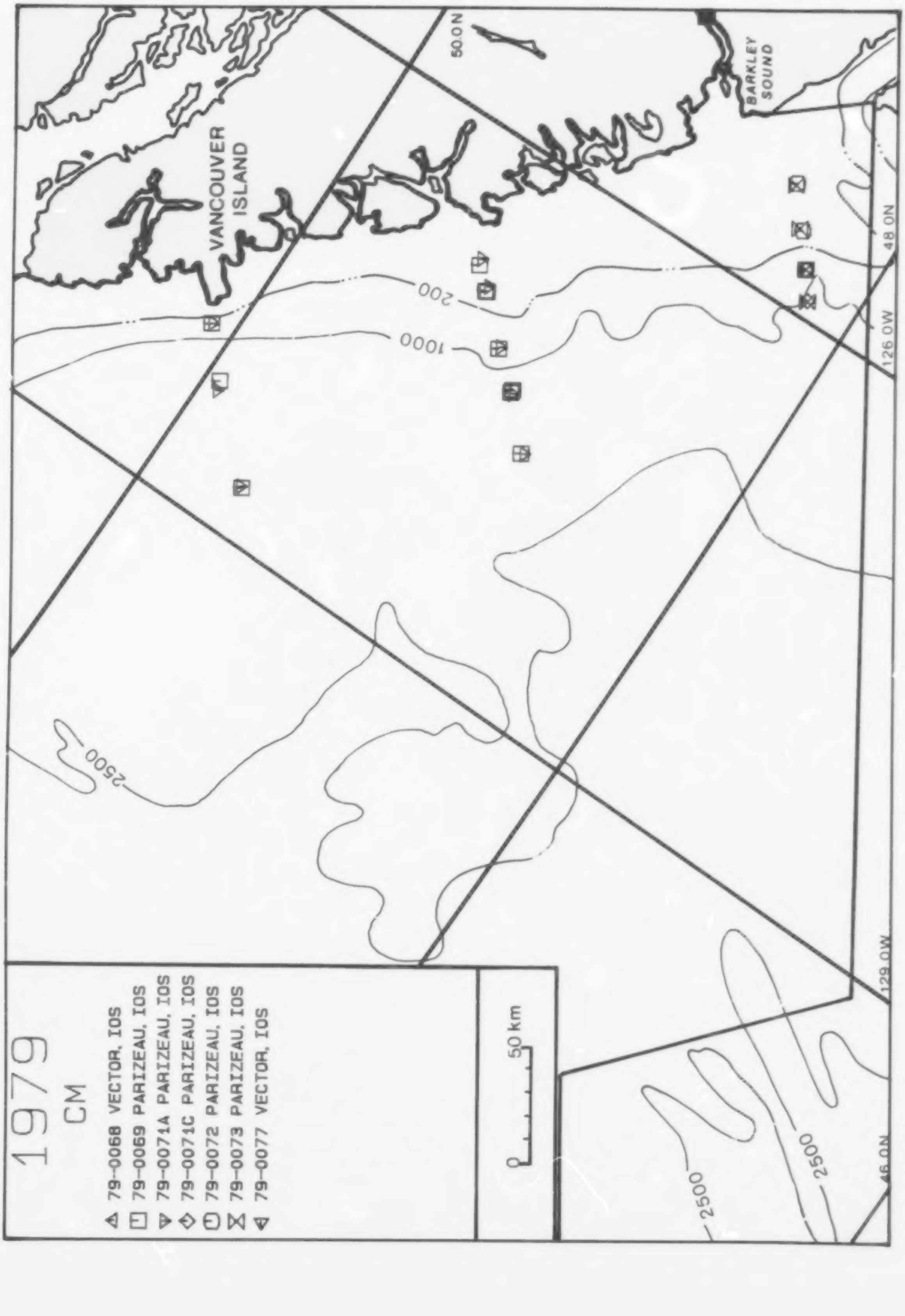

1979
TS
Δ 79-0079 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

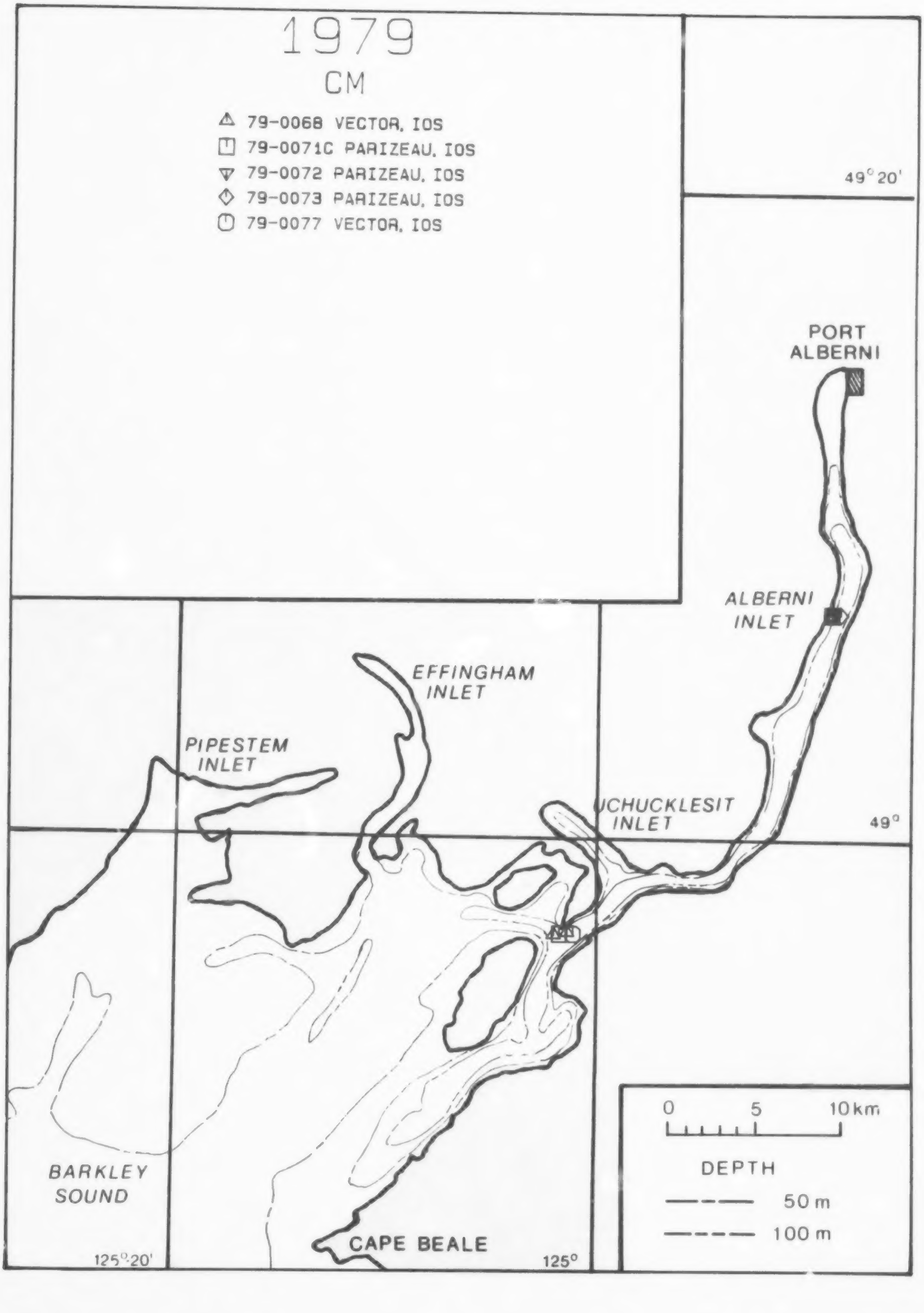

1979
TS
⚠ 79-0079 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

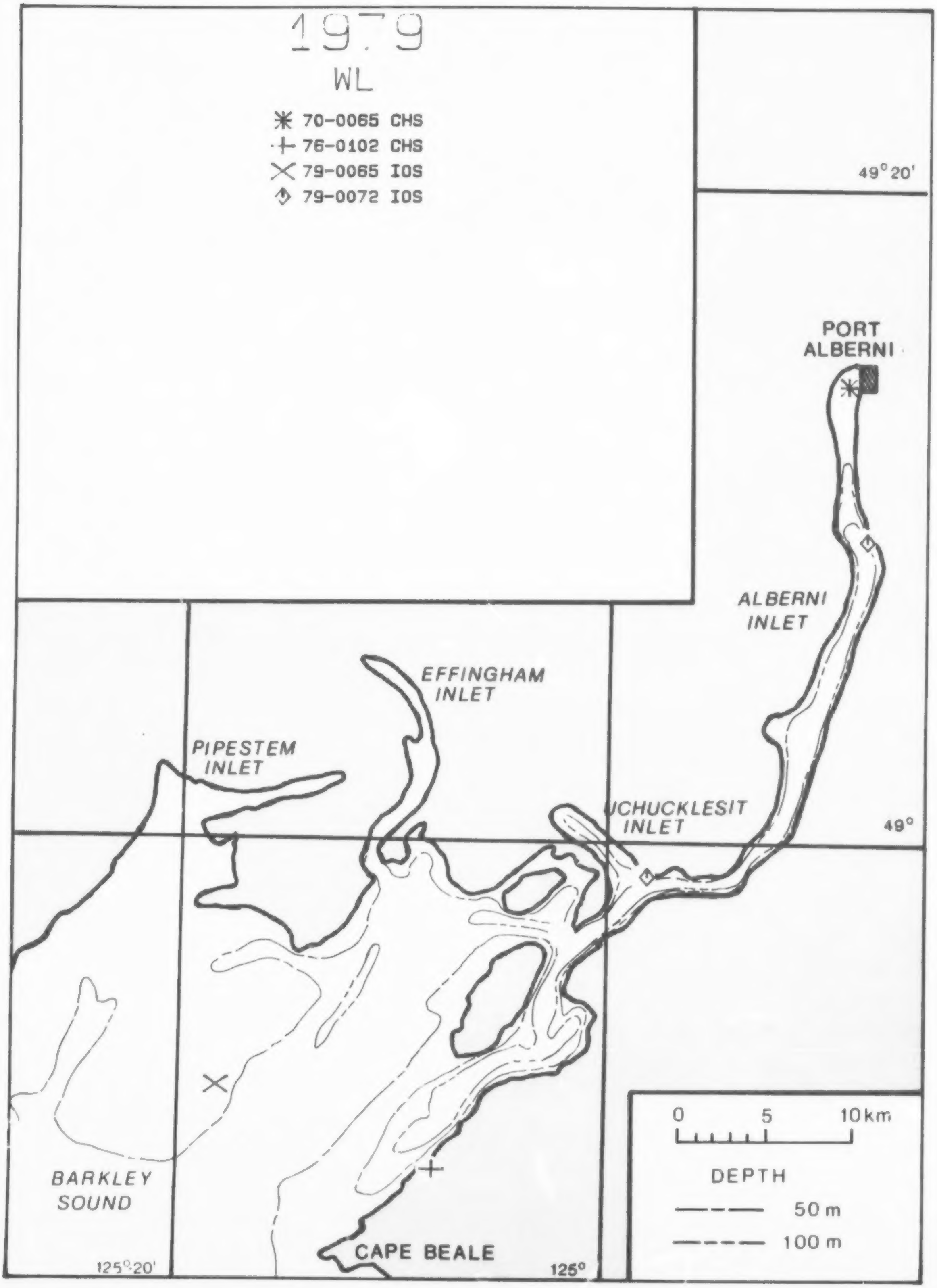

DEPTH
100m
0
5
10km
RUPERT INLET
QUATSINO NARROWS
NEROUTSOS INLET
HOLBERG INLET
QUATSINO SOUND
50°30'
127°30'
128°
1979
TS
△ 35-0008 MOT
□ 71-0097 UTAH MINES
▽ 79-0080 VECTOR, UBC
WL
✳ 78-0101 IOS
+ 79-0065 IOS
× 79-0071A IOS
◇ 79-0074 IOS

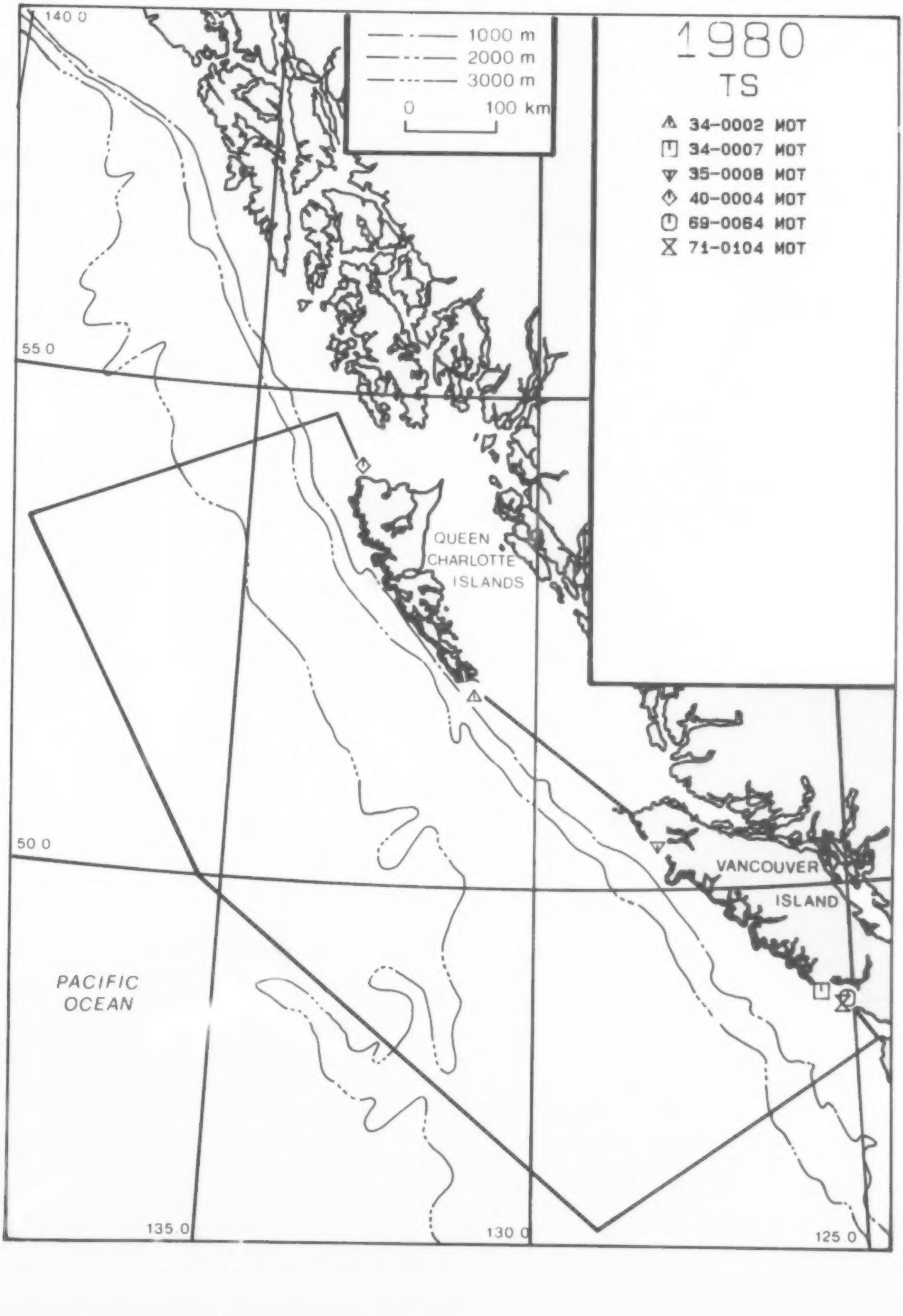

140.0
1000 m
2000 m
3000 m
0 100 km
1979
WL
05-0005 CHS
70-0032 CHS
70-0065 CHS
75-0070 CHS
76-0102 CHS
78-0101 IOS
79-0065 IOS
79-0069 PARIZEAU, IOS
79-0071A IOS
79-0072 IOS
79-0074 IOS
WAVE
70-0066 MEDS
76-0101 NOAA(US)
55.0
QUEEN CHARLOTTE ISLANDS
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

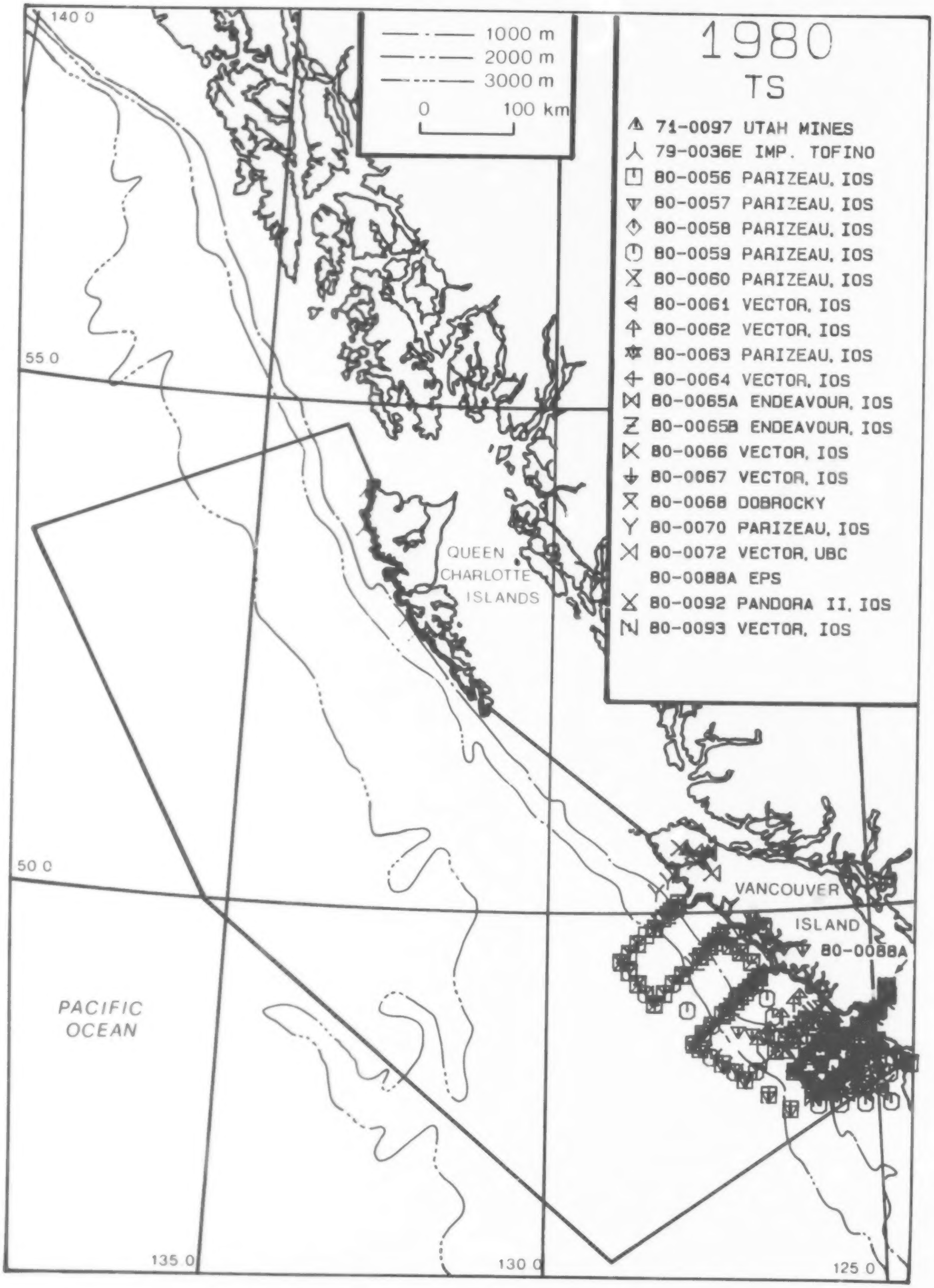

1979
CM
△ 79-0068 VECTOR, IOS
☐ 79-0069 PARIZEAU, IOS
▽ 79-0071A PARIZEAU, IOS
◇ 79-0071C PARIZEAU, IOS
○ 79-0072 PARIZEAU, IOS
⧖ 79-0073 PARIZEAU, IOS
◁ 79-0077 VECTOR, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

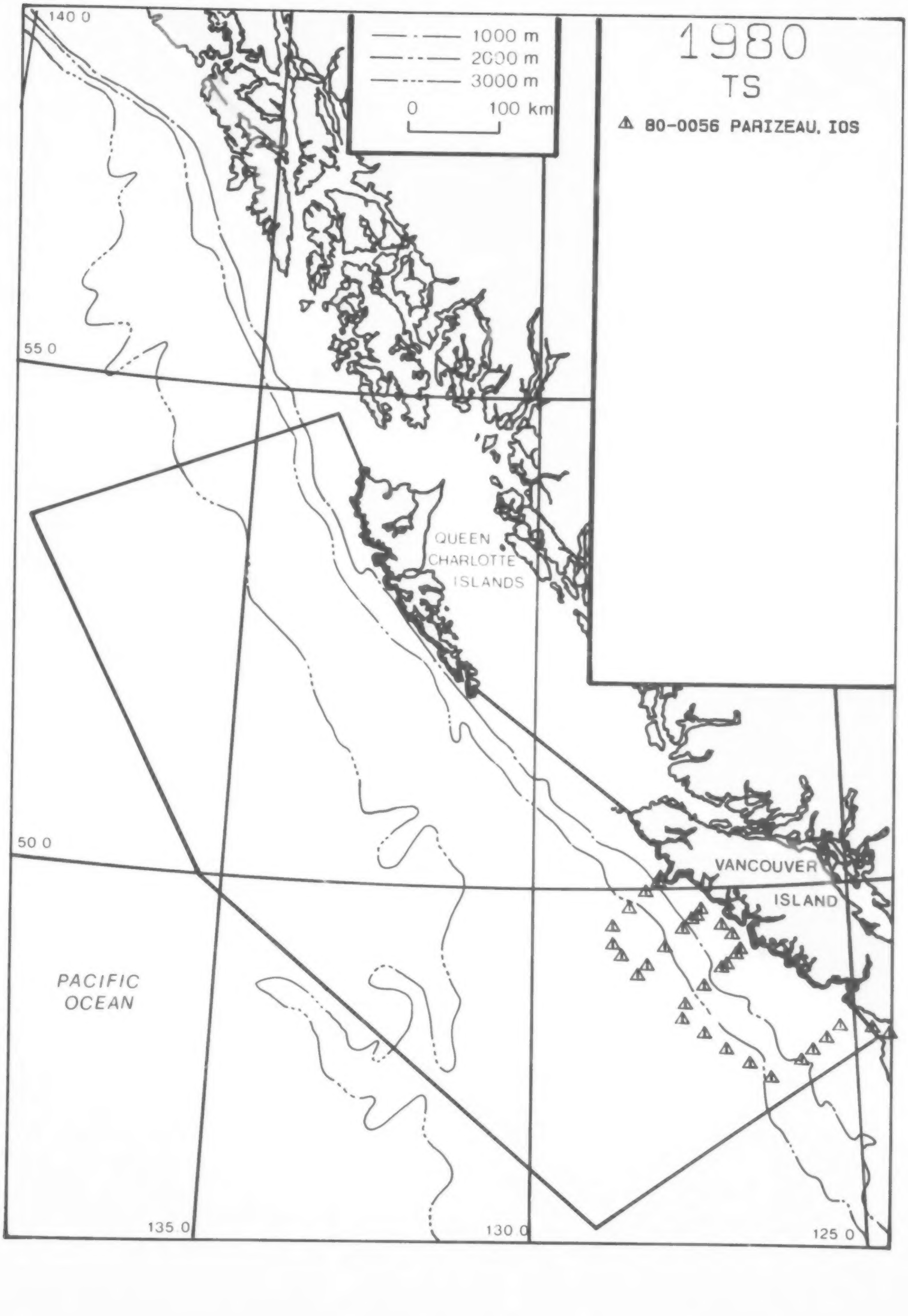

1979
CM
△ 79-0068 VECTOR, IOS
☐ 79-0069 PARIZEAU, IOS
▽ 79-0071A PARIZEAU, IOS
◇ 79-0071C PARIZEAU, IOS
◯ 79-0072 PARIZEAU, IOS
⊠ 79-0073 PARIZEAU, IOS
◁ 79-0077 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0 N
46.0 N
126.0 W
129.0 W
200
1000
2500
2500
2500

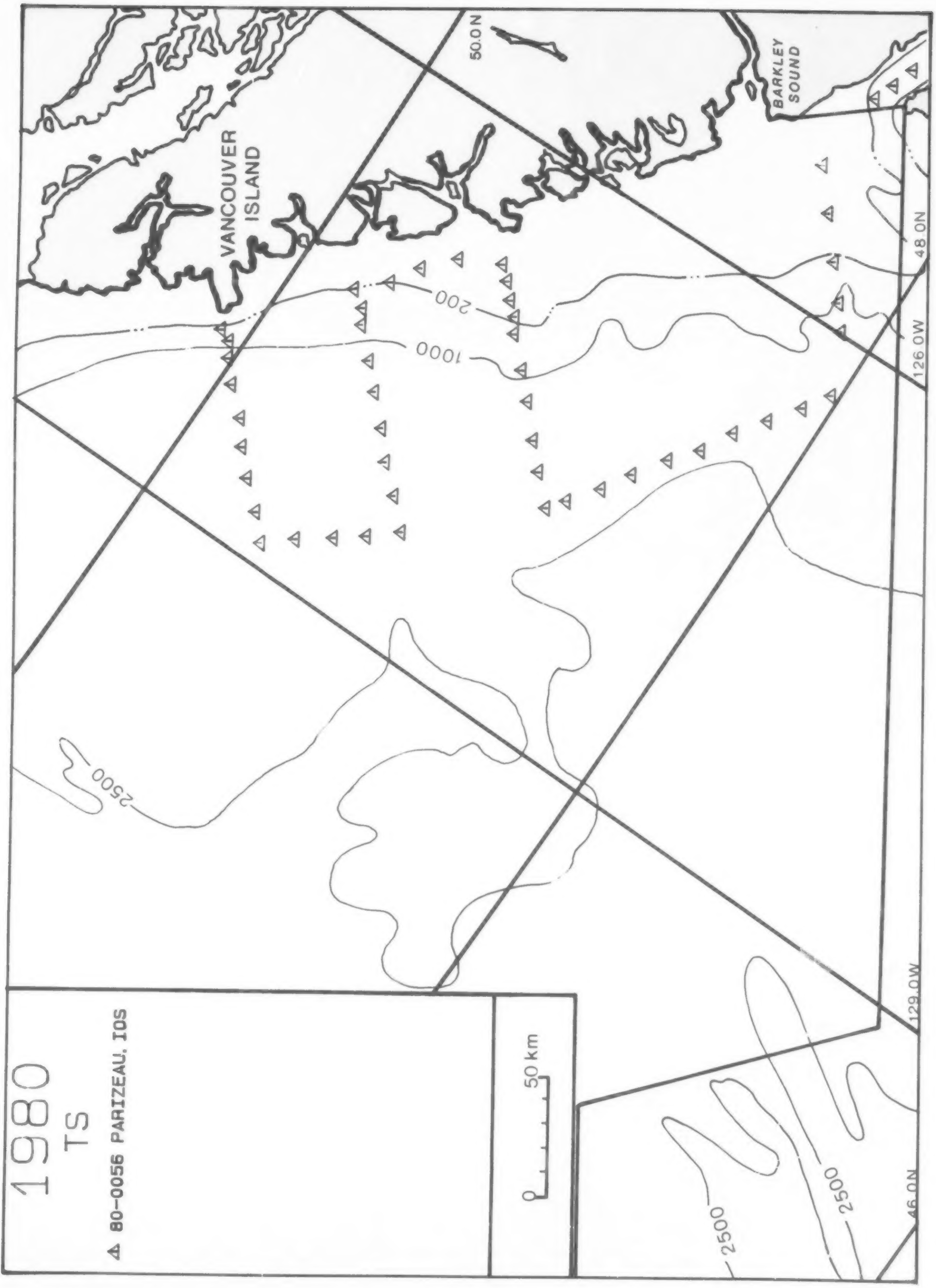

1979
CM
△ 79-0068 VECTOR, IOS
◫ 79-0071C PARIZEAU, IOS
▽ 79-0072 PARIZEAU, IOS
◇ 79-0073 PARIZEAU, IOS
⏀ 79-0077 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

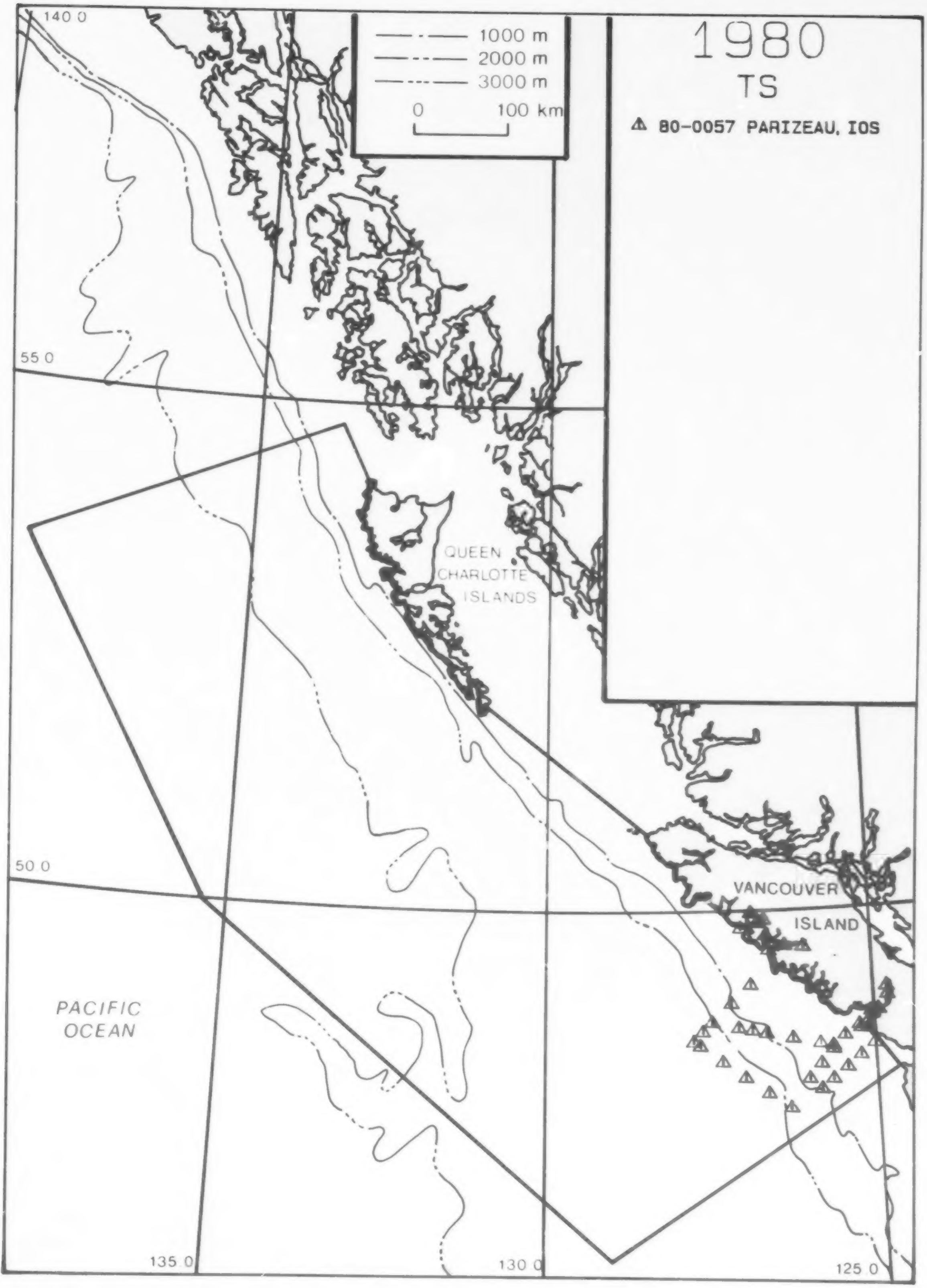

1979
WL
✳ 70-0065 CHS
+ 76-0102 CHS
× 79-0065 IOS
◇ 79-0072 IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

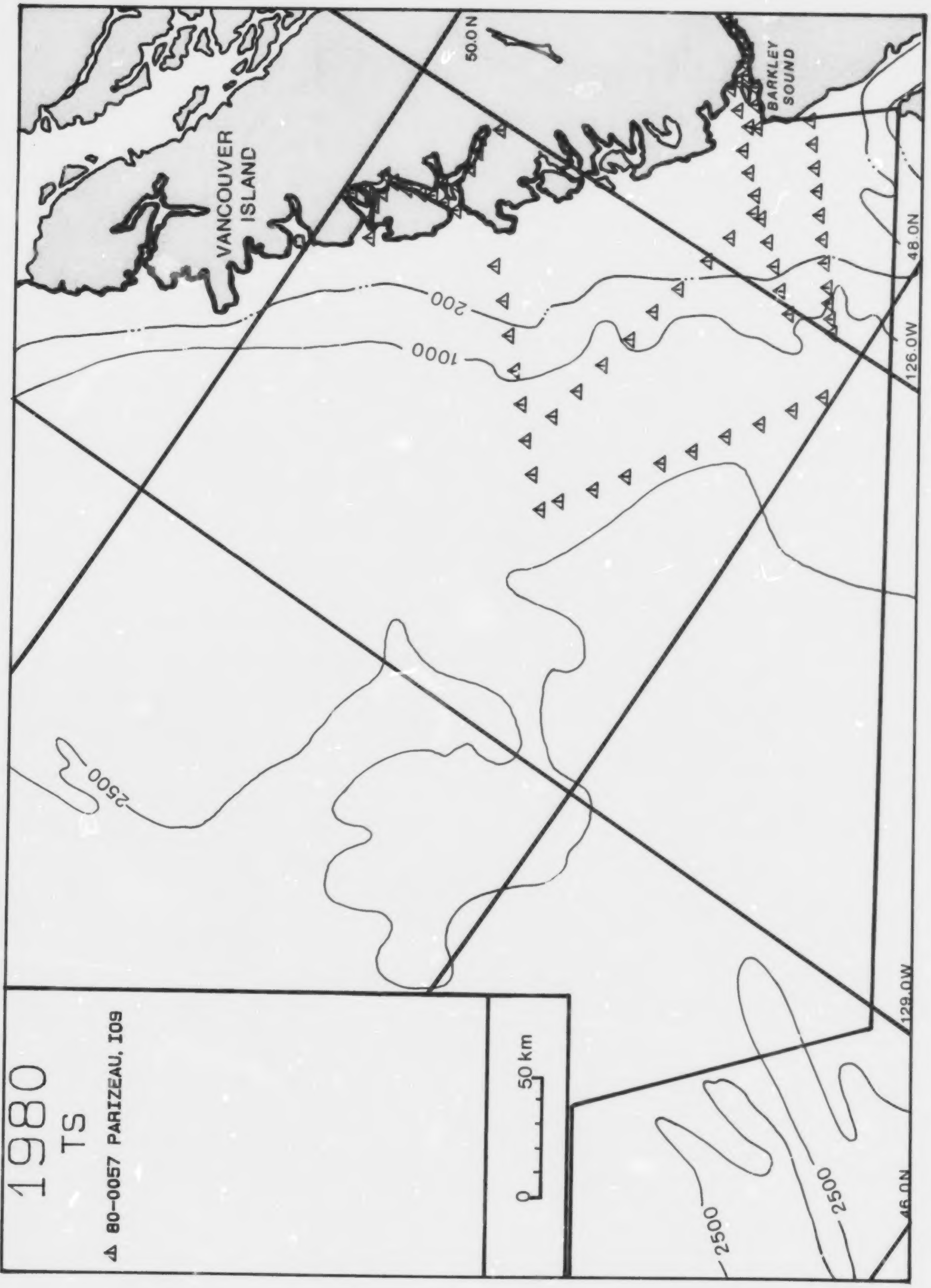

1000 m
2000 m
3000 m
0
100 km
1980
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
69-0064 MOT
71-0104 MOT
140.0
135.0
130.0
125.0
55.0
50.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

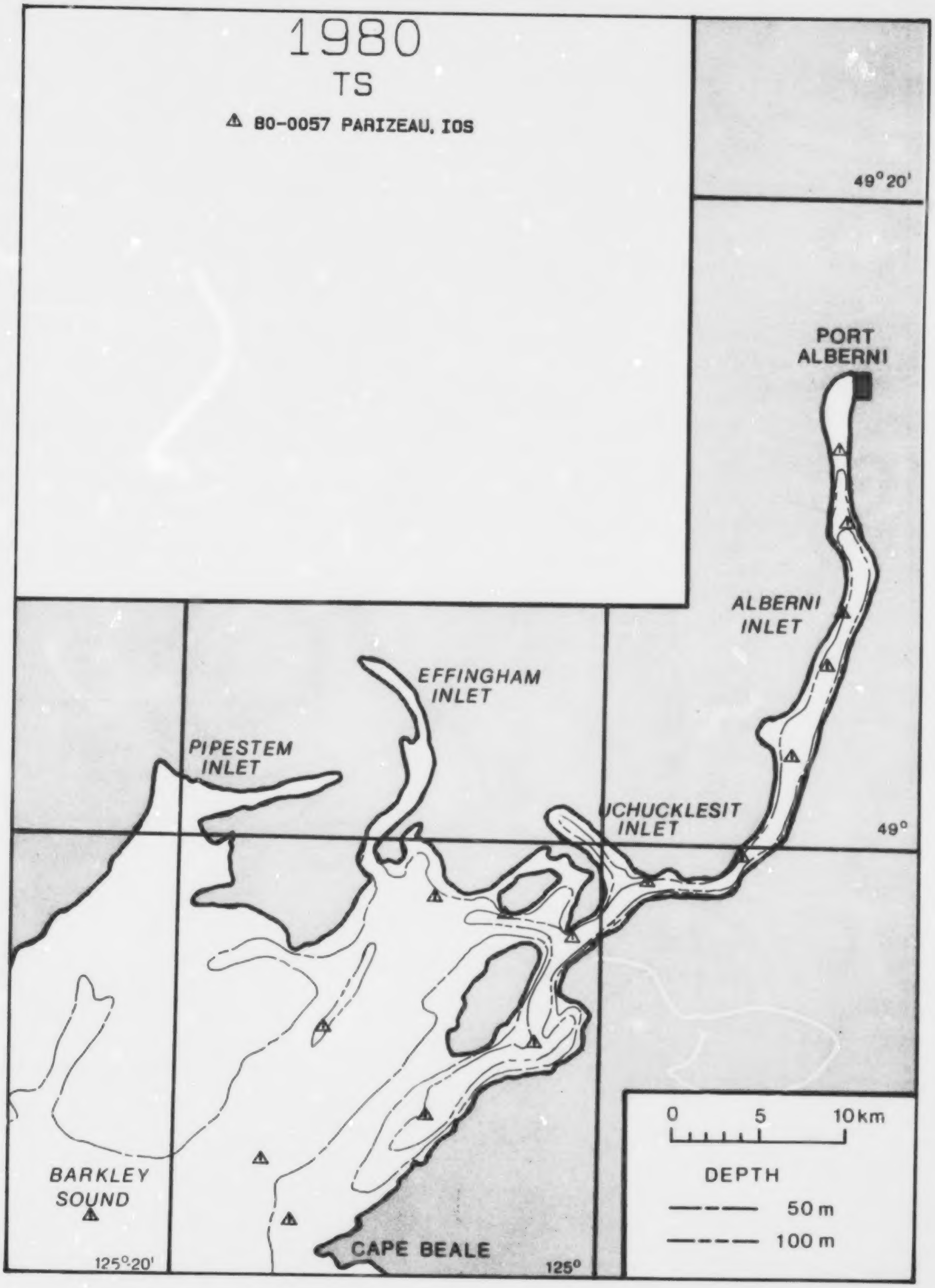

140.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
71-0097 UTAH MINES
79-0036E IMP. TOFINO
80-0056 PARIZEAU, IOS
80-0057 PARIZEAU, IOS
80-0058 PARIZEAU, IOS
80-0059 PARIZEAU, IOS
80-0060 PARIZEAU, IOS
80-0061 VECTOR, IOS
80-0062 VECTOR, IOS
80-0063 PARIZEAU, IOS
80-0064 VECTOR, IOS
80-0065A ENDEAVOUR, IOS
80-0065B ENDEAVOUR, IOS
80-0066 VECTOR, IOS
80-0067 VECTOR, IOS
80-0068 DOBROCKY
80-0070 PARIZEAU, IOS
80-0072 VECTOR, UBC
80-0088A EPS
80-0092 PANDORA II, IOS
80-0093 VECTOR, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
80-0088A
PACIFIC
OCEAN
135.0
130.0
125.0

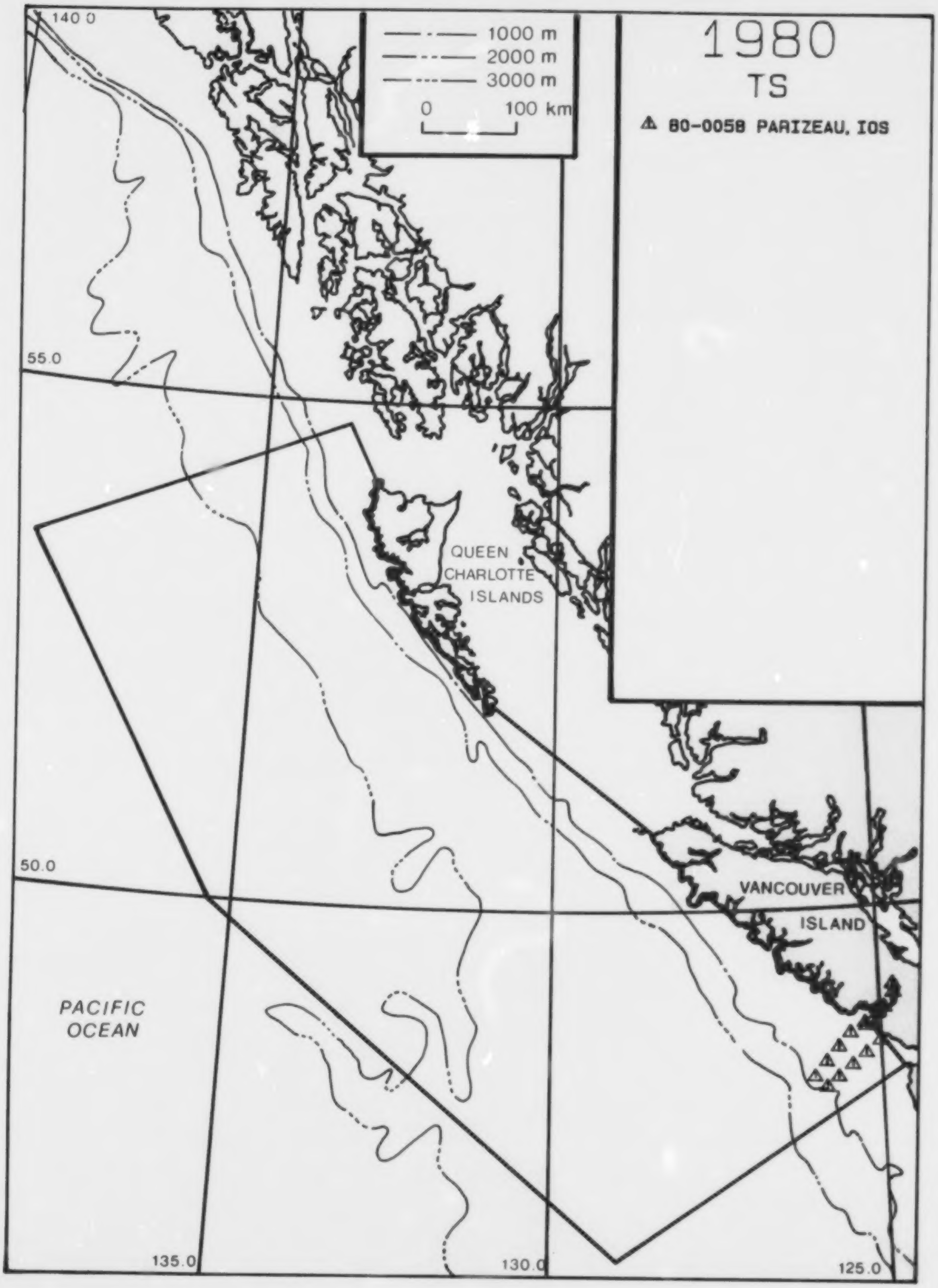

140.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0056 PARIZEAU, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

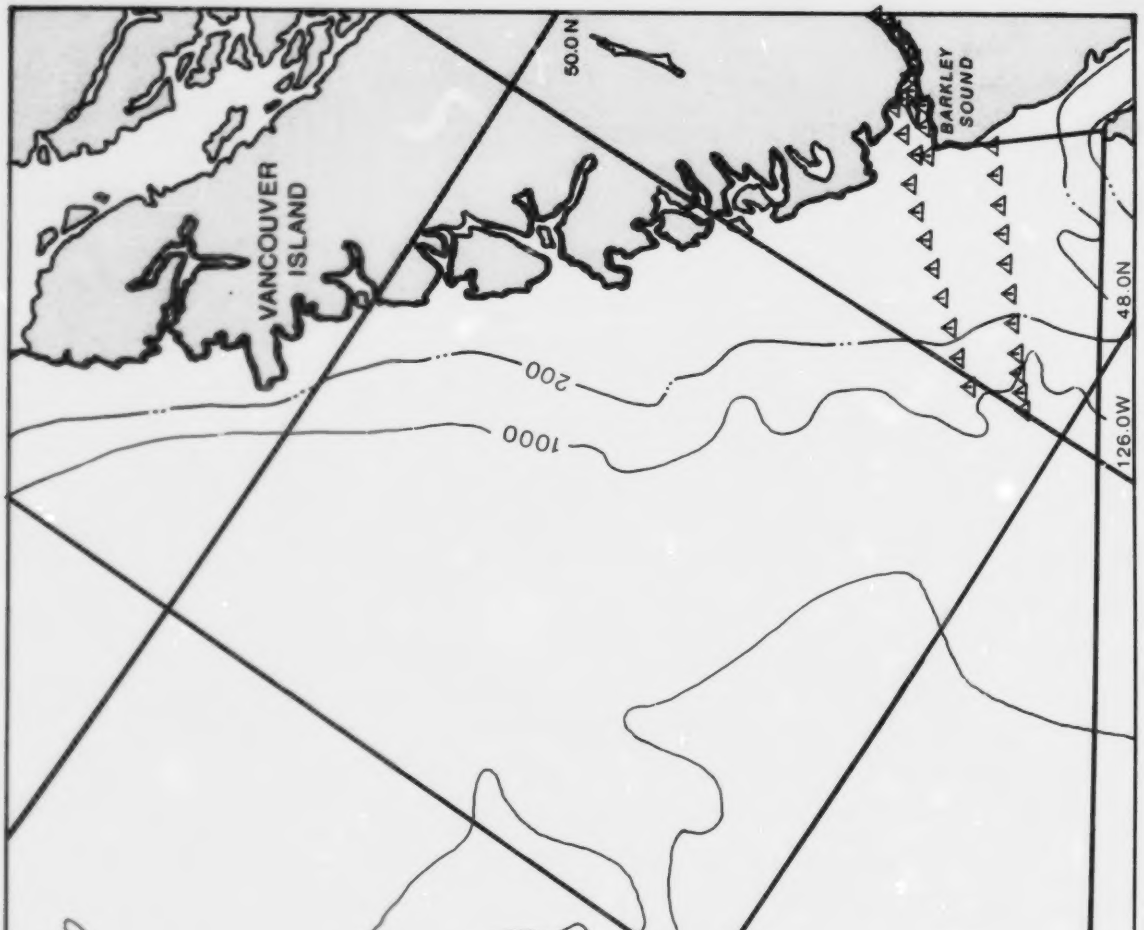

1980
TS
80-0056 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

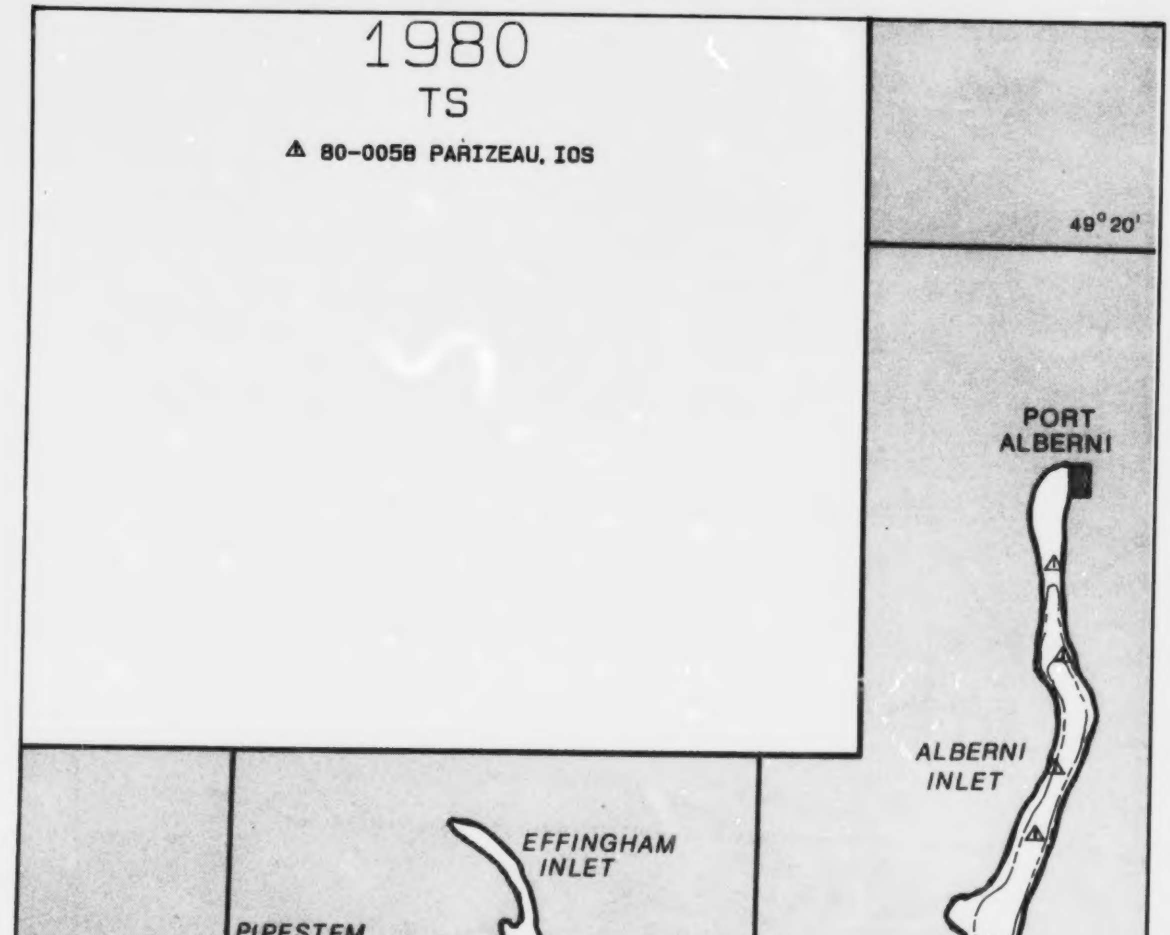

140.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0057 PARIZEAU, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

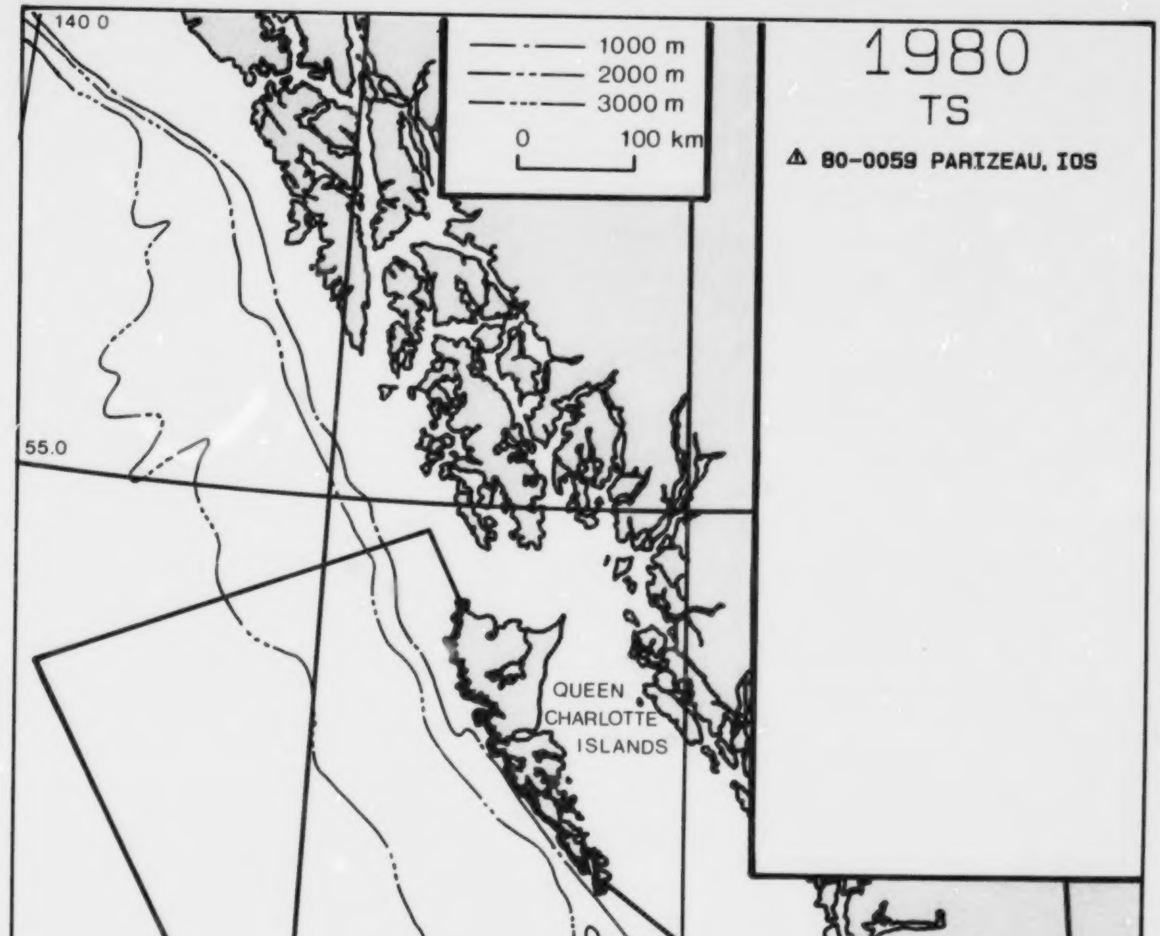

1980
Ts
△ 80-0057 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

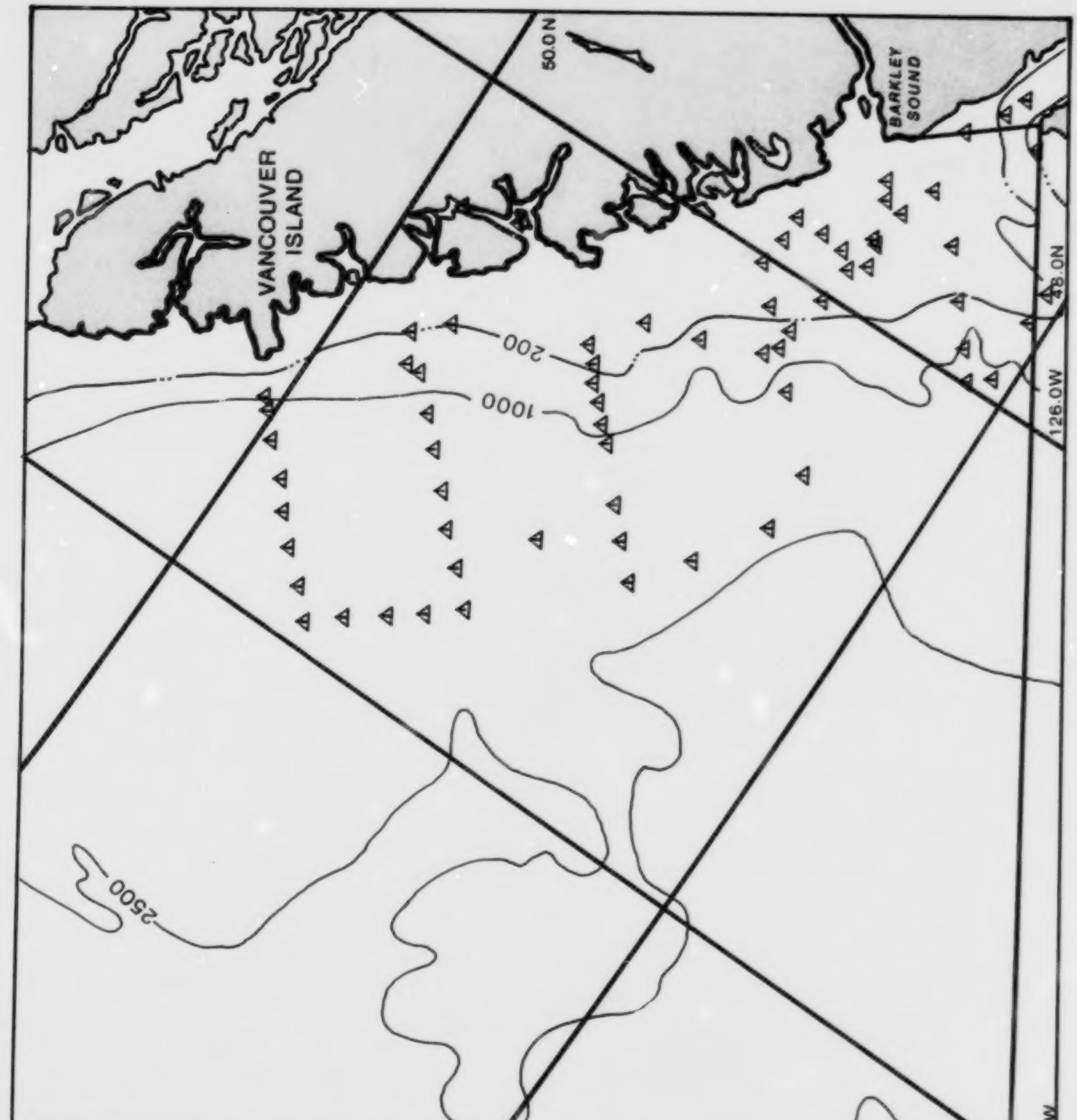

1980
TS
⚠ 80-0057 PARIZEAU, IOS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

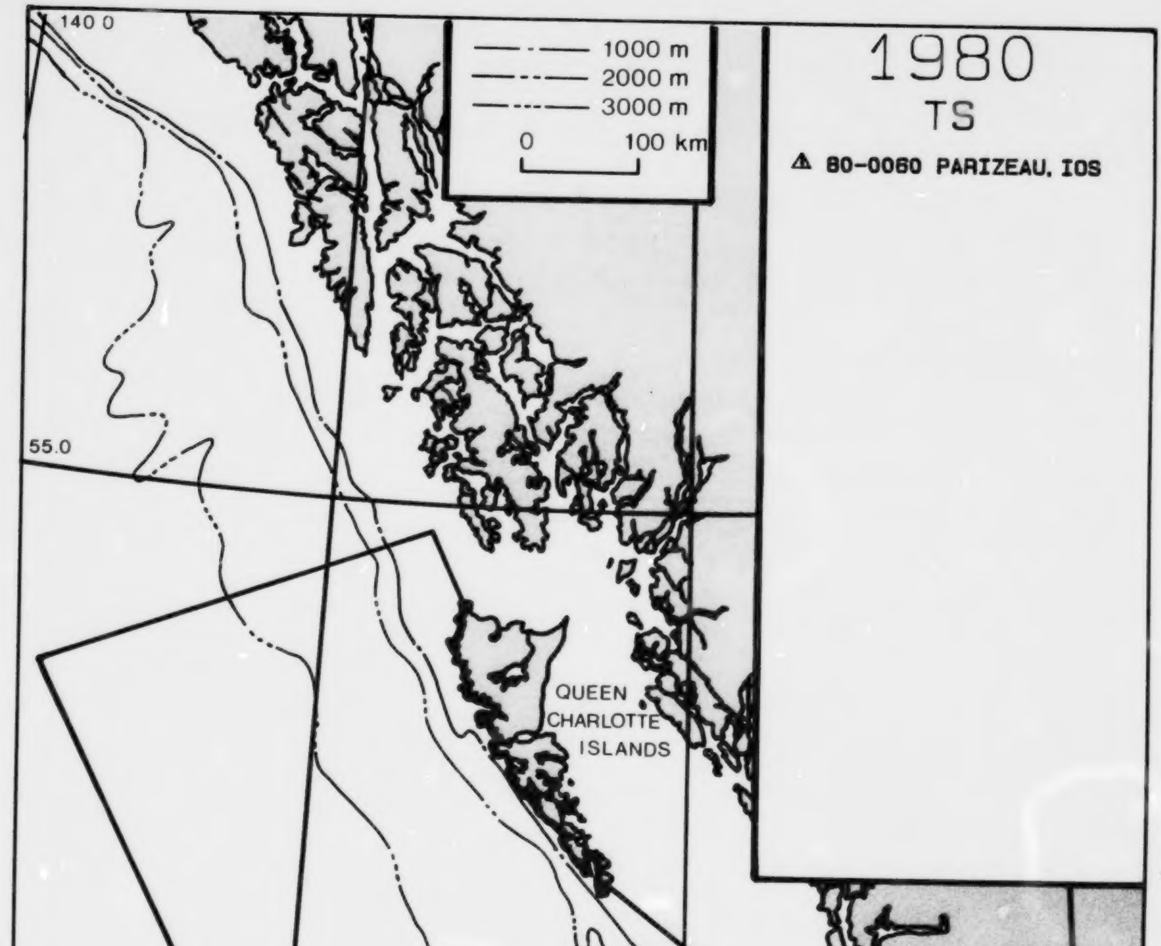

1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0058 PARIZEAU, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

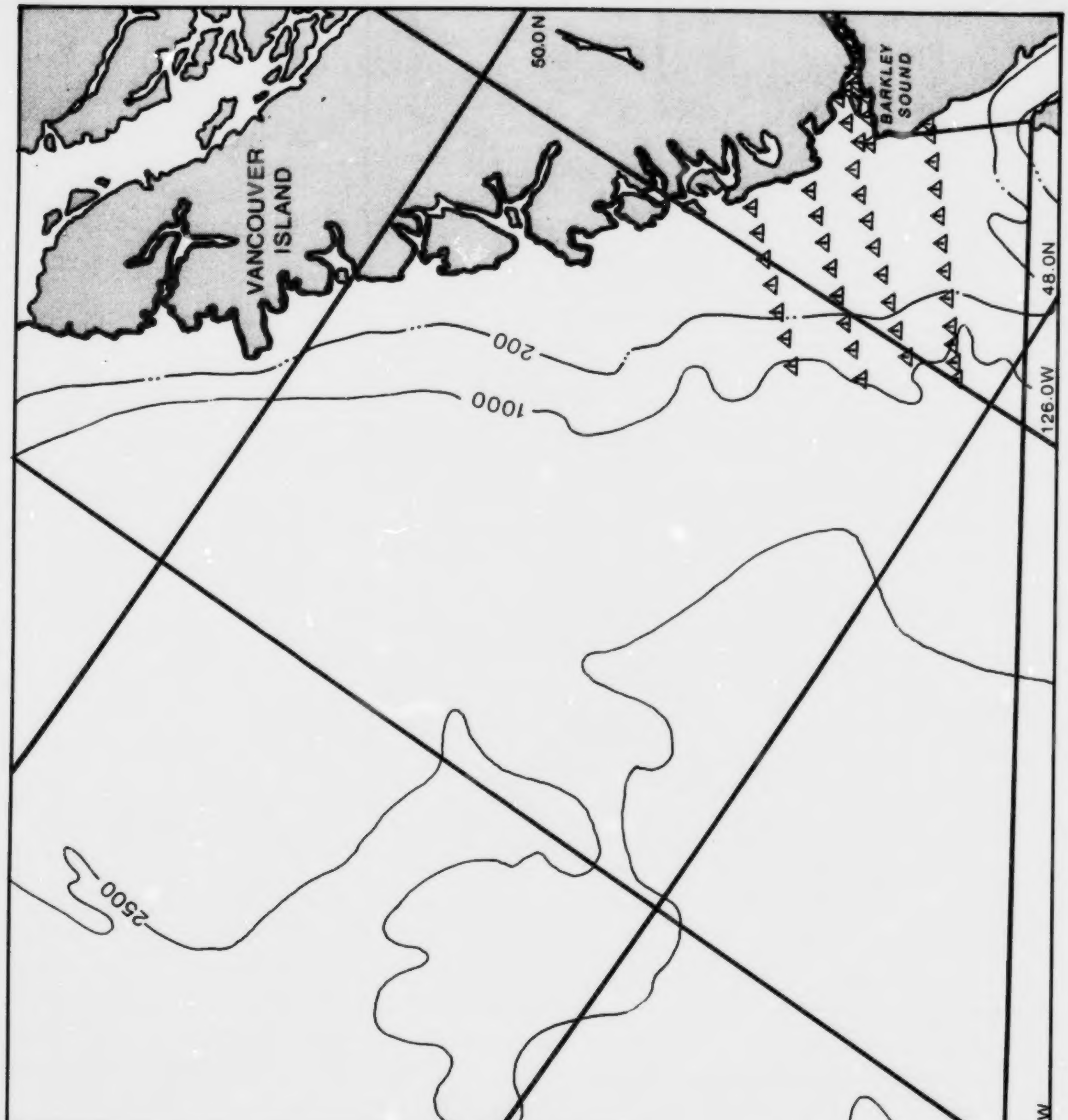

1980
TS
Δ 80-0058 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

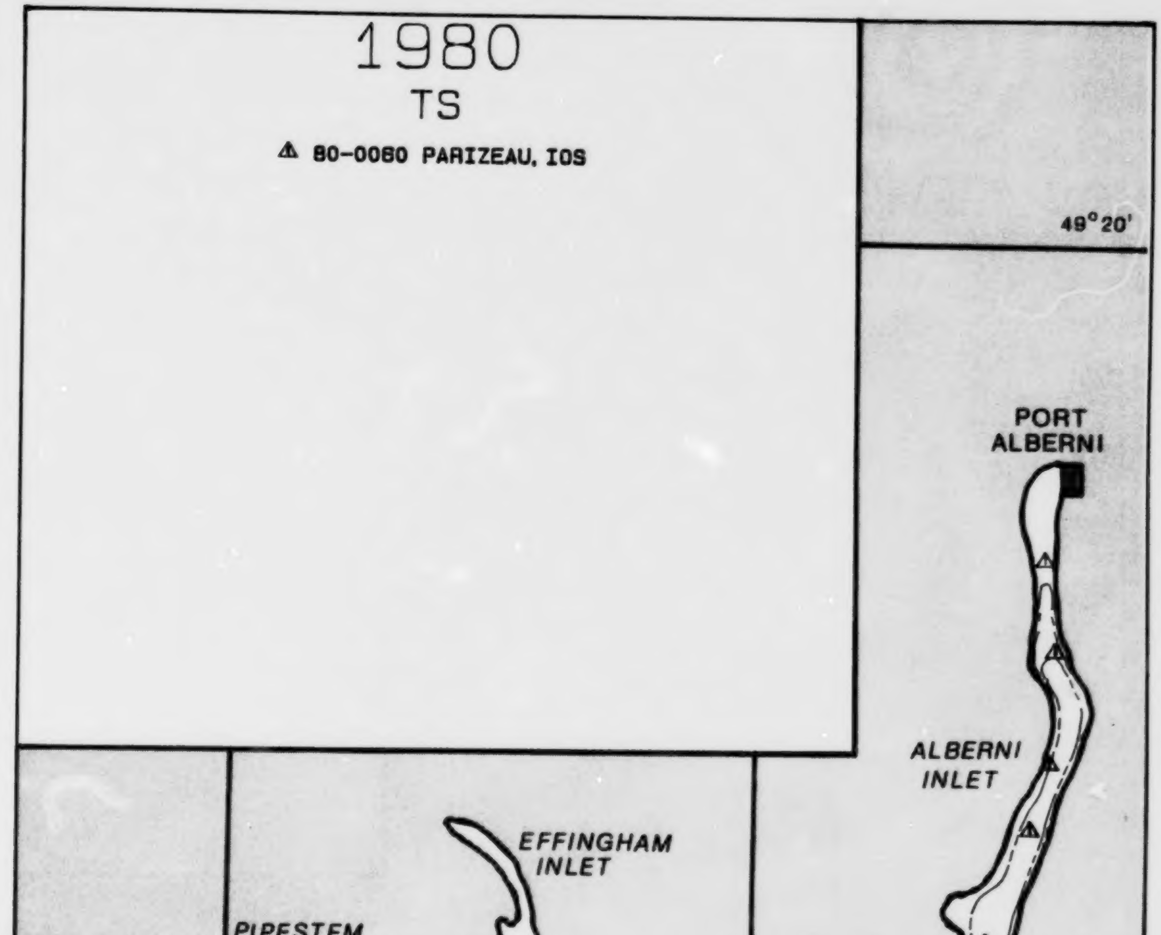

1980
TS
⚠ 80-0058 PARIZEAU, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

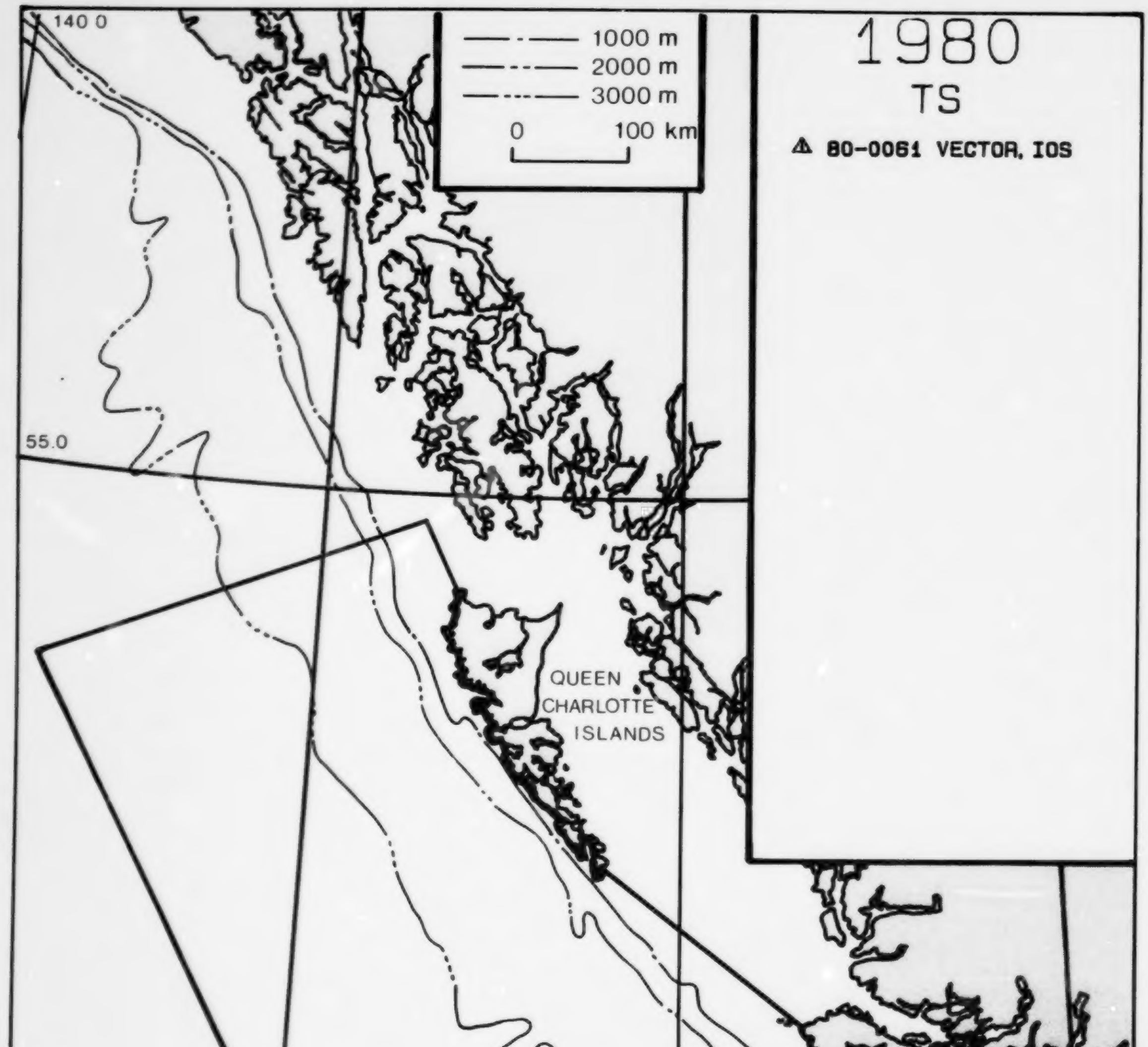

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0059 PARIZEAU, IOS
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

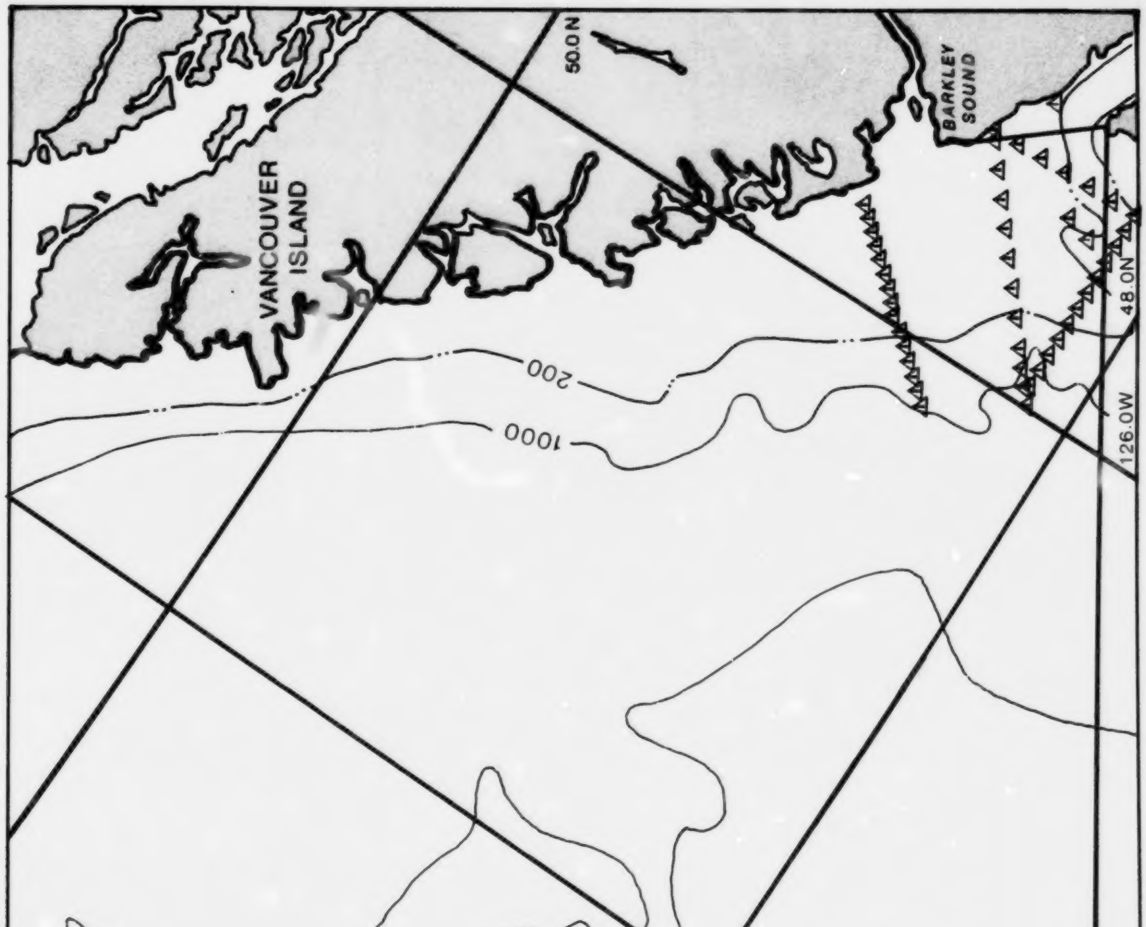

1980
TS
80-0059 PARIZEAU. IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

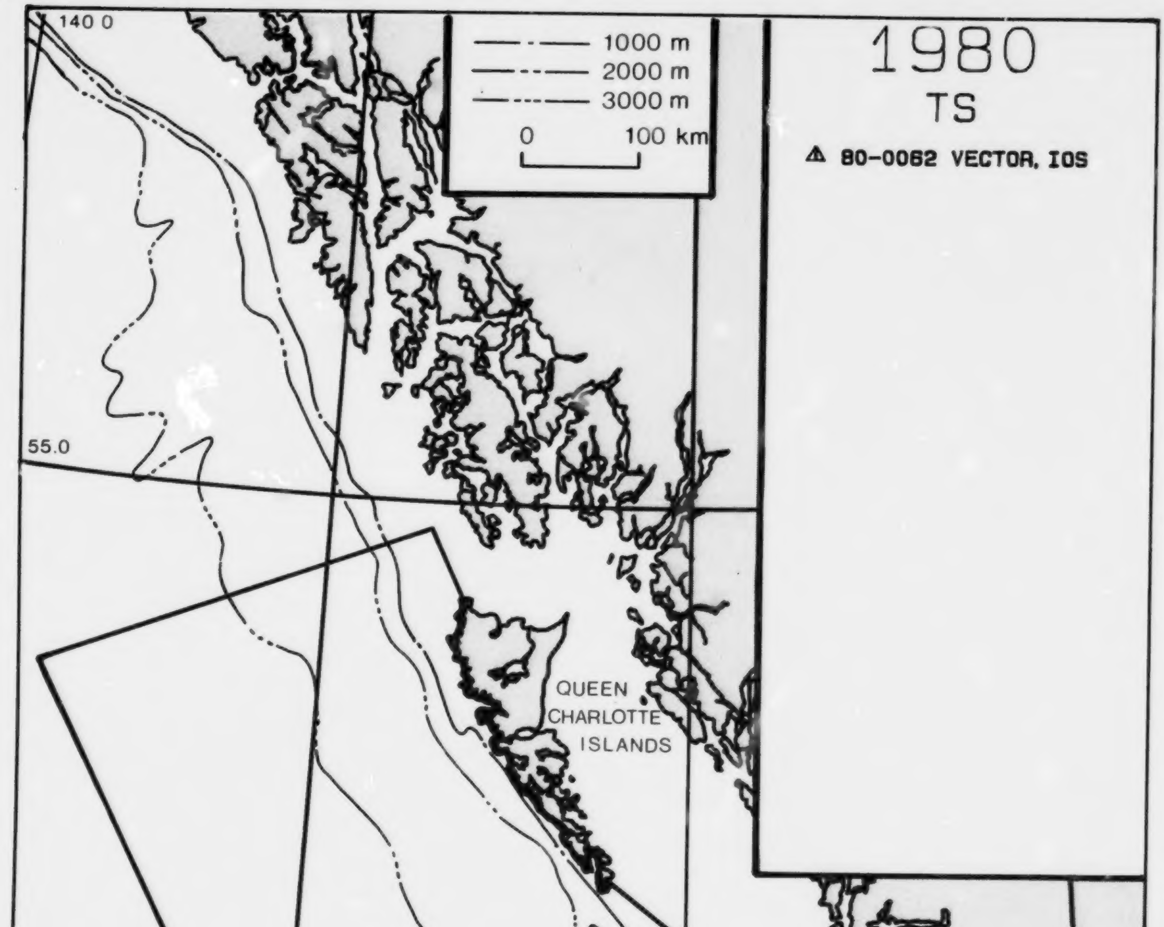

1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0060 PARIZEAU, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

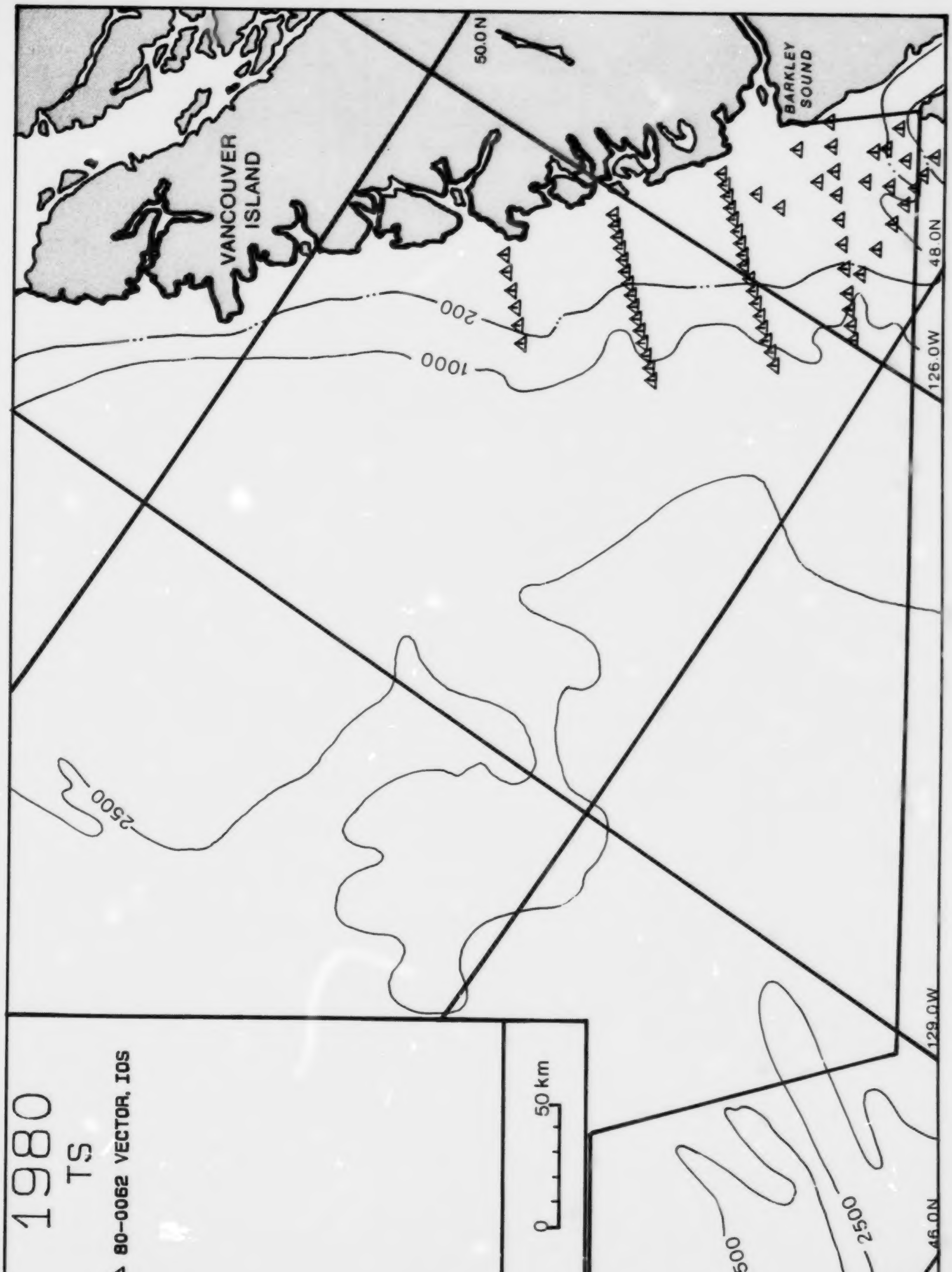

1980
Ts
Δ 80-0060 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

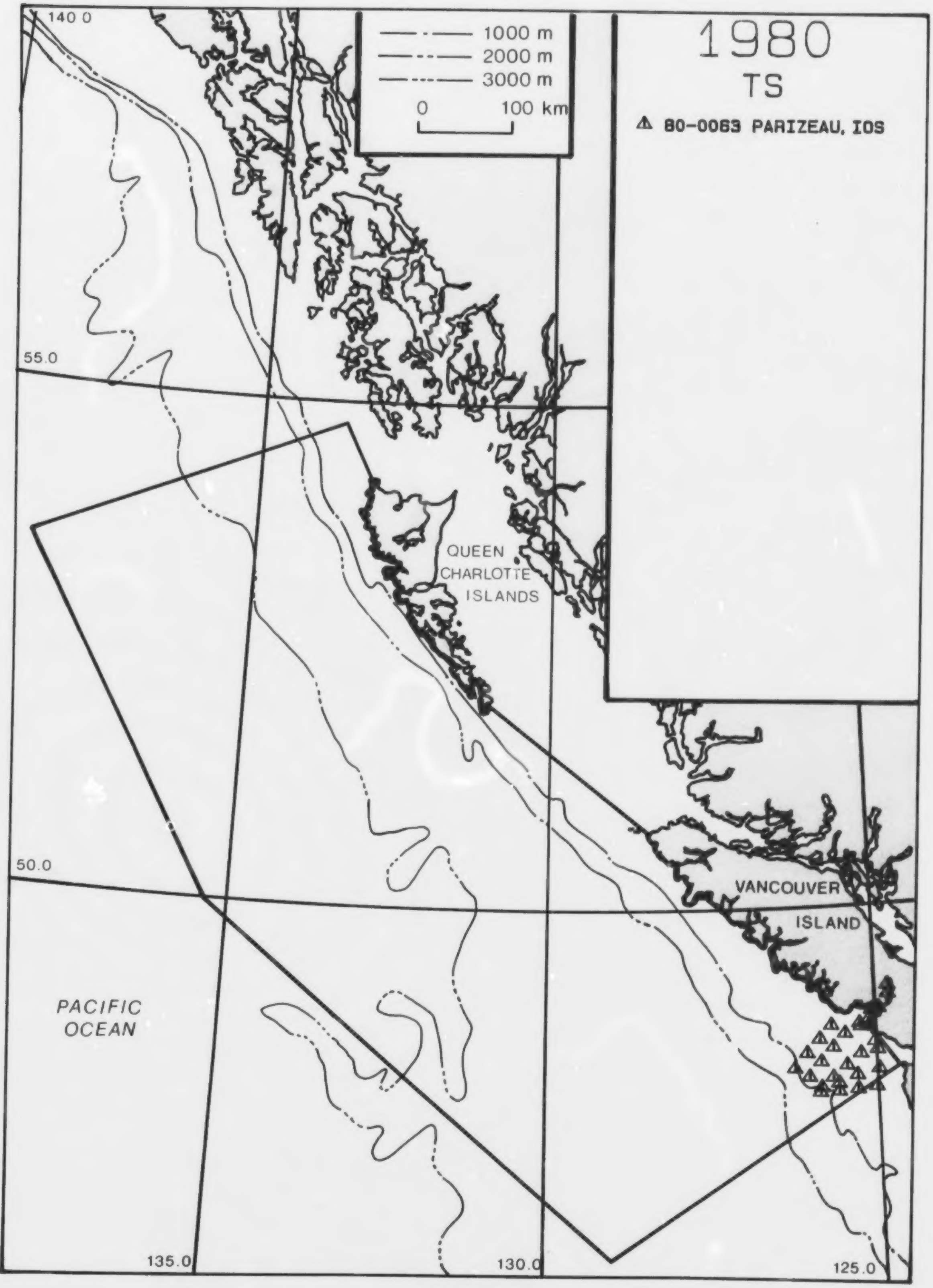

1980
TS
⚠ 80-0060 PARIZEAU, IOS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
0 5 10km
DEPTH
50 m
100 m
BARKLEY SOUND
CAPE BEALE
125°20'
125°

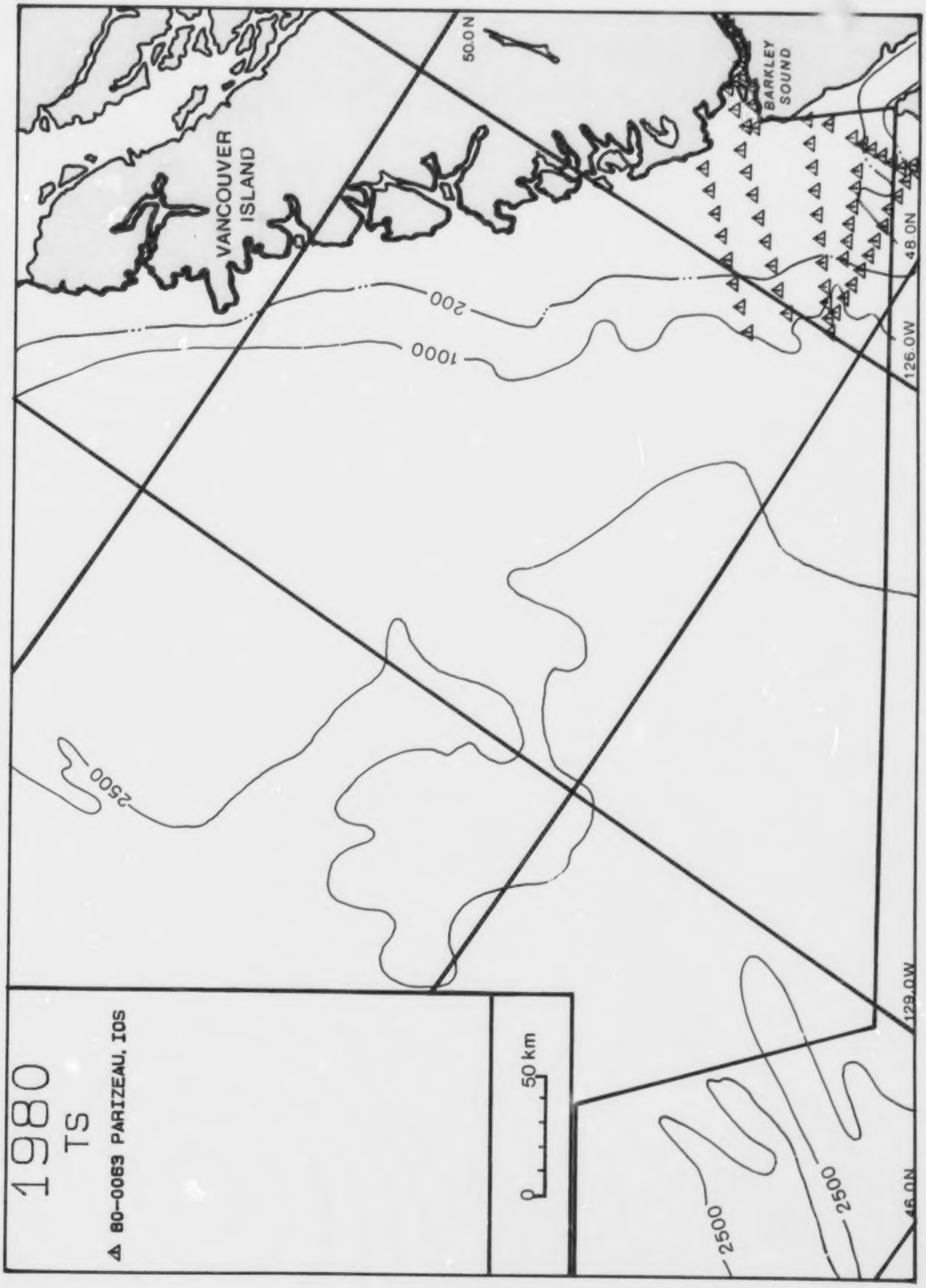

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0061 VECTOR, IOS
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

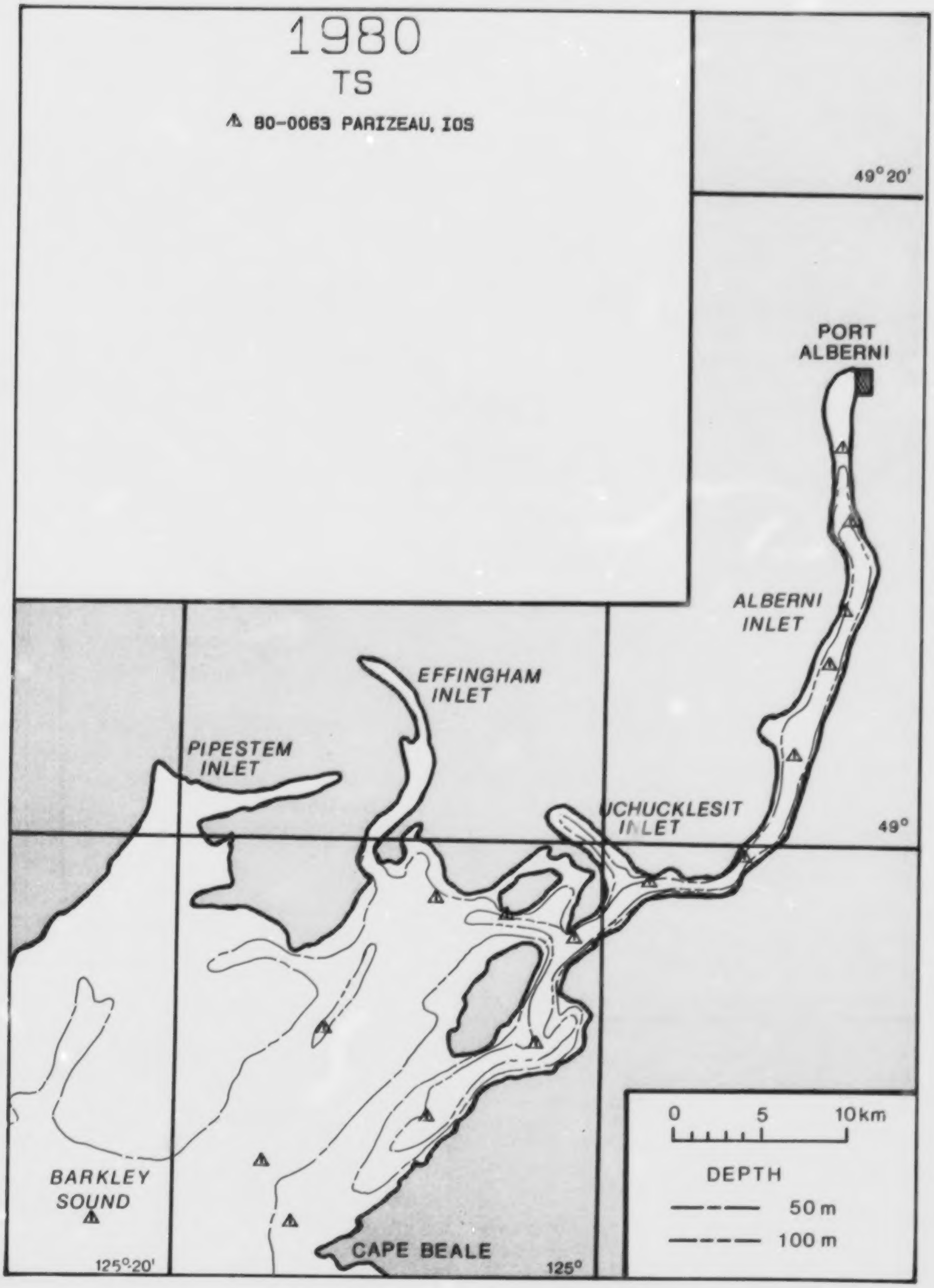

1980
TS
Δ 80-0061 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

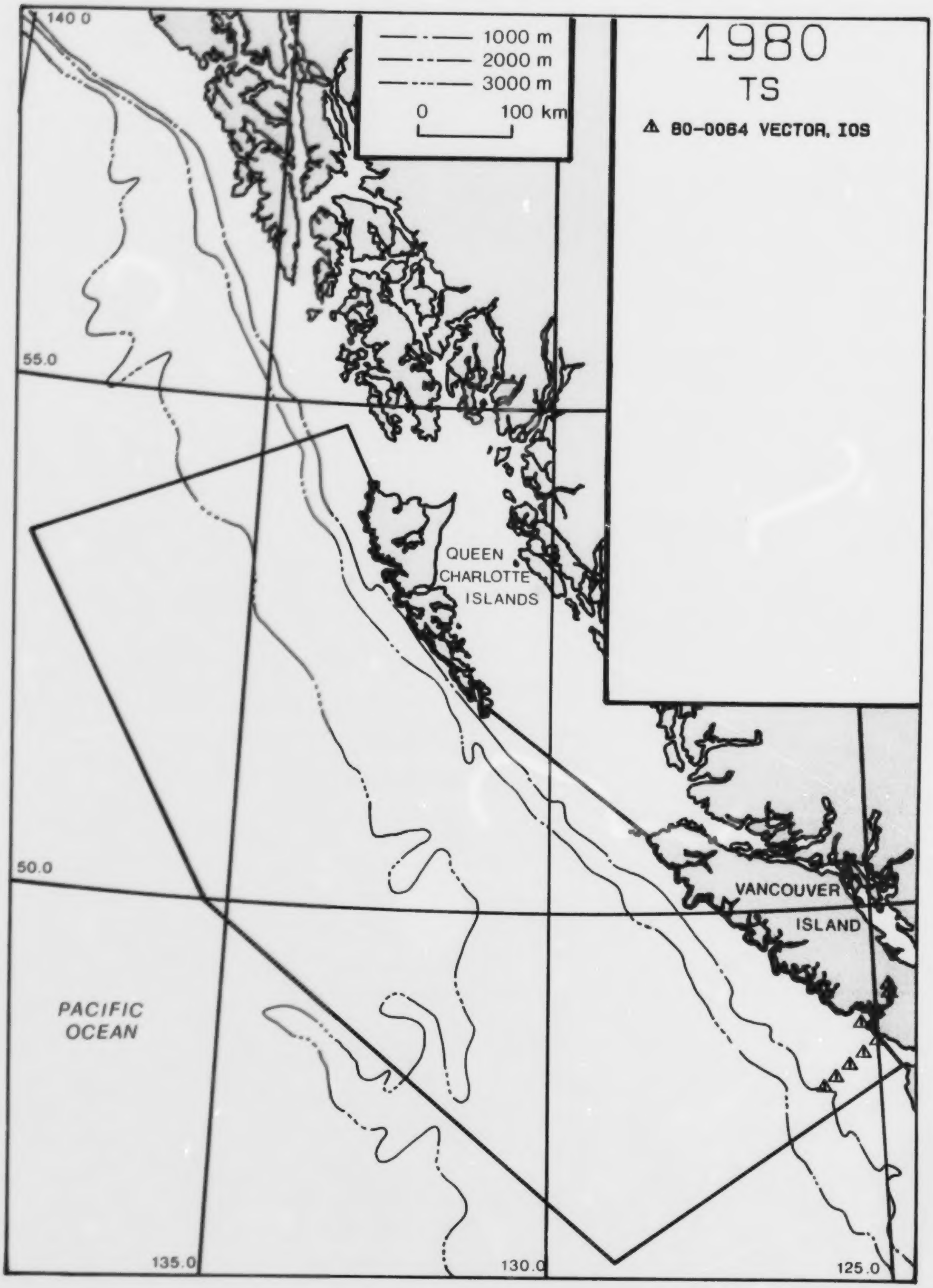

140.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0062 VECTOR, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

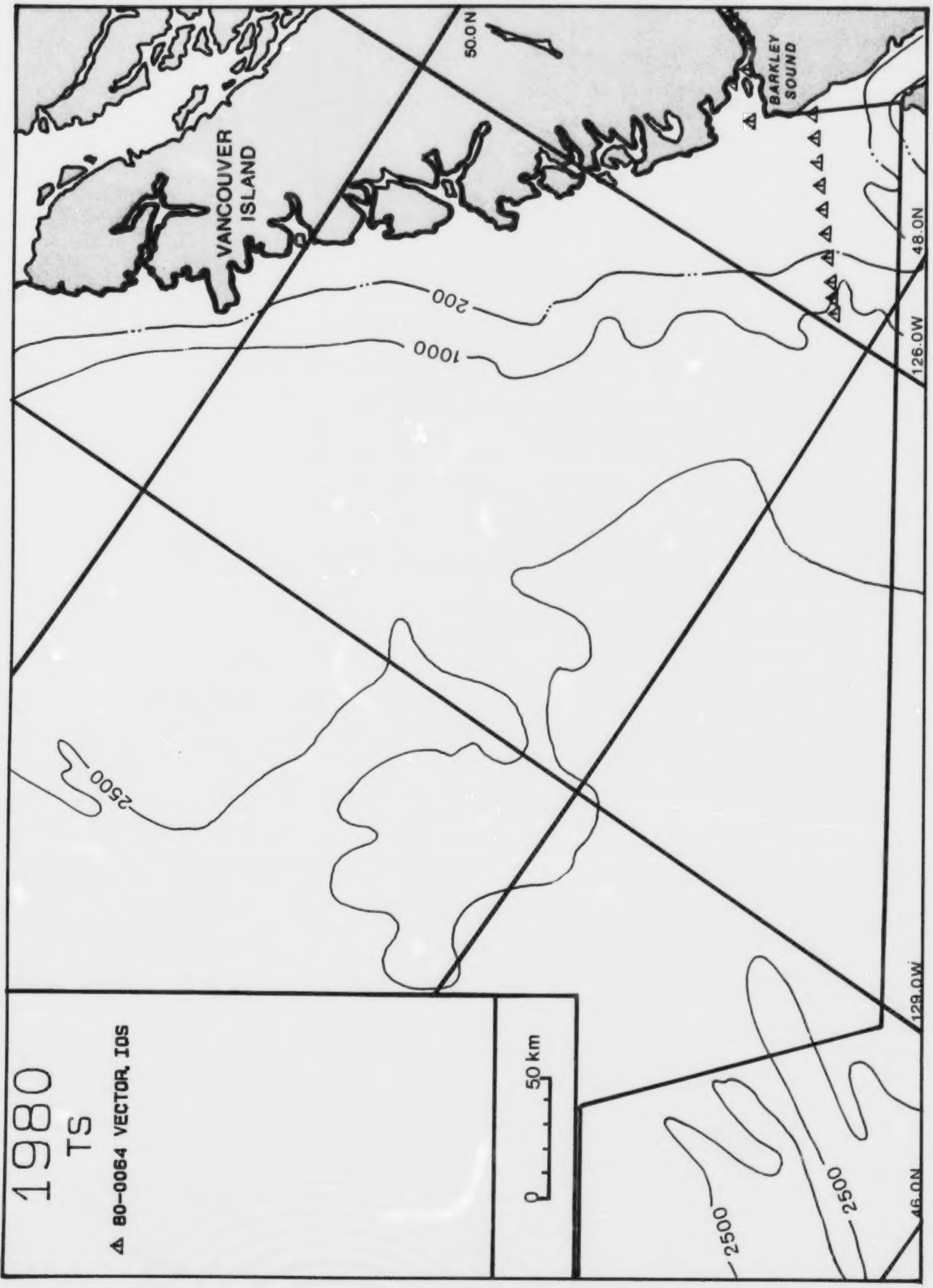

1980
TS
Δ 80-0062 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0 N
46.0 N
126.0W
129.0W
200
1000
2500
2500
2500
2500

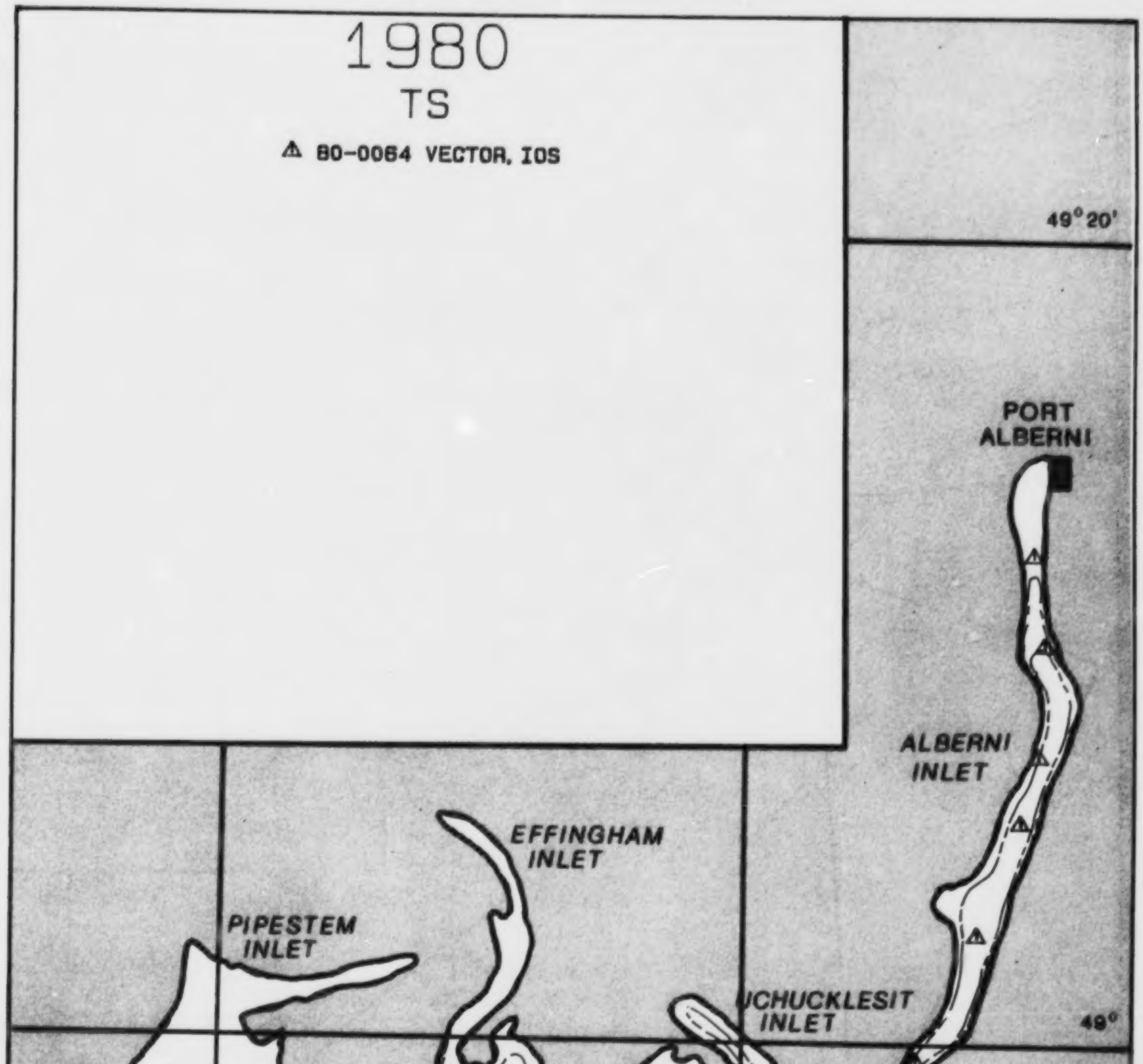

1980
TS
⚠ 80-0063 PARIZEAU, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

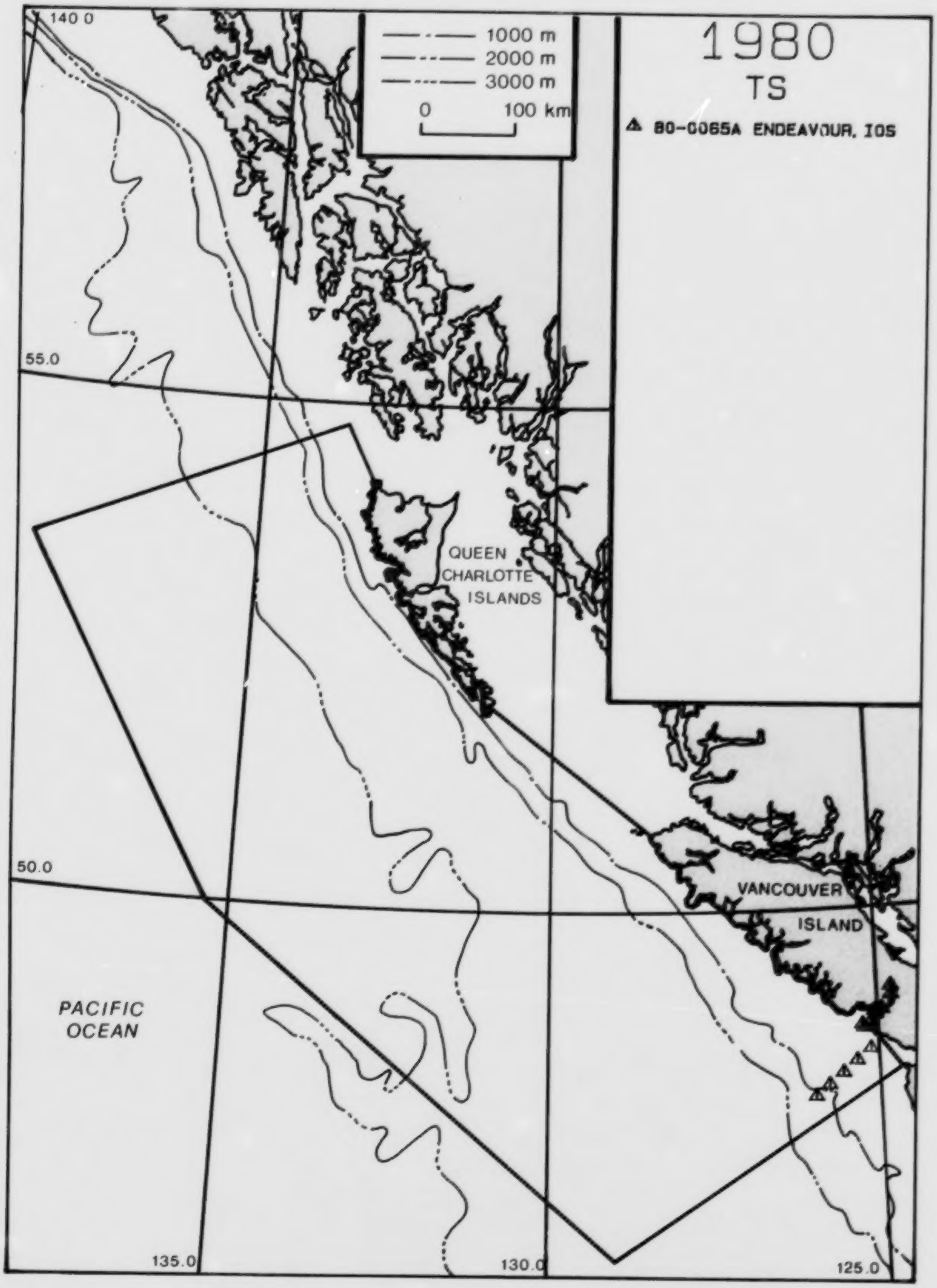

1980
TS
Δ 80-0063 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

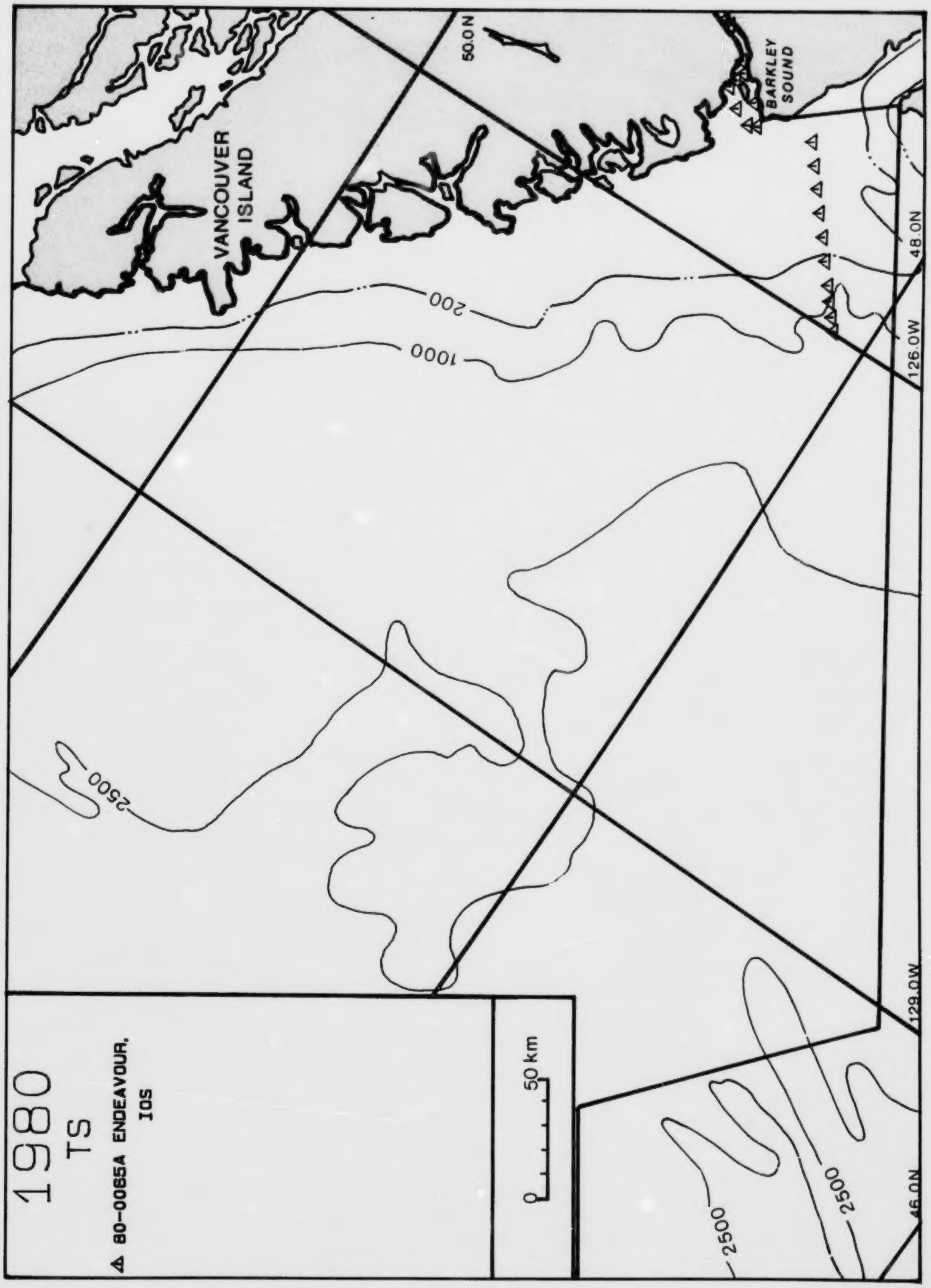

1980
TS
⚠ 80-0063 PARIZEAU, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
125°20'
CAPE BEALE
125°
0 5 10 km
DEPTH
50 m
100 m

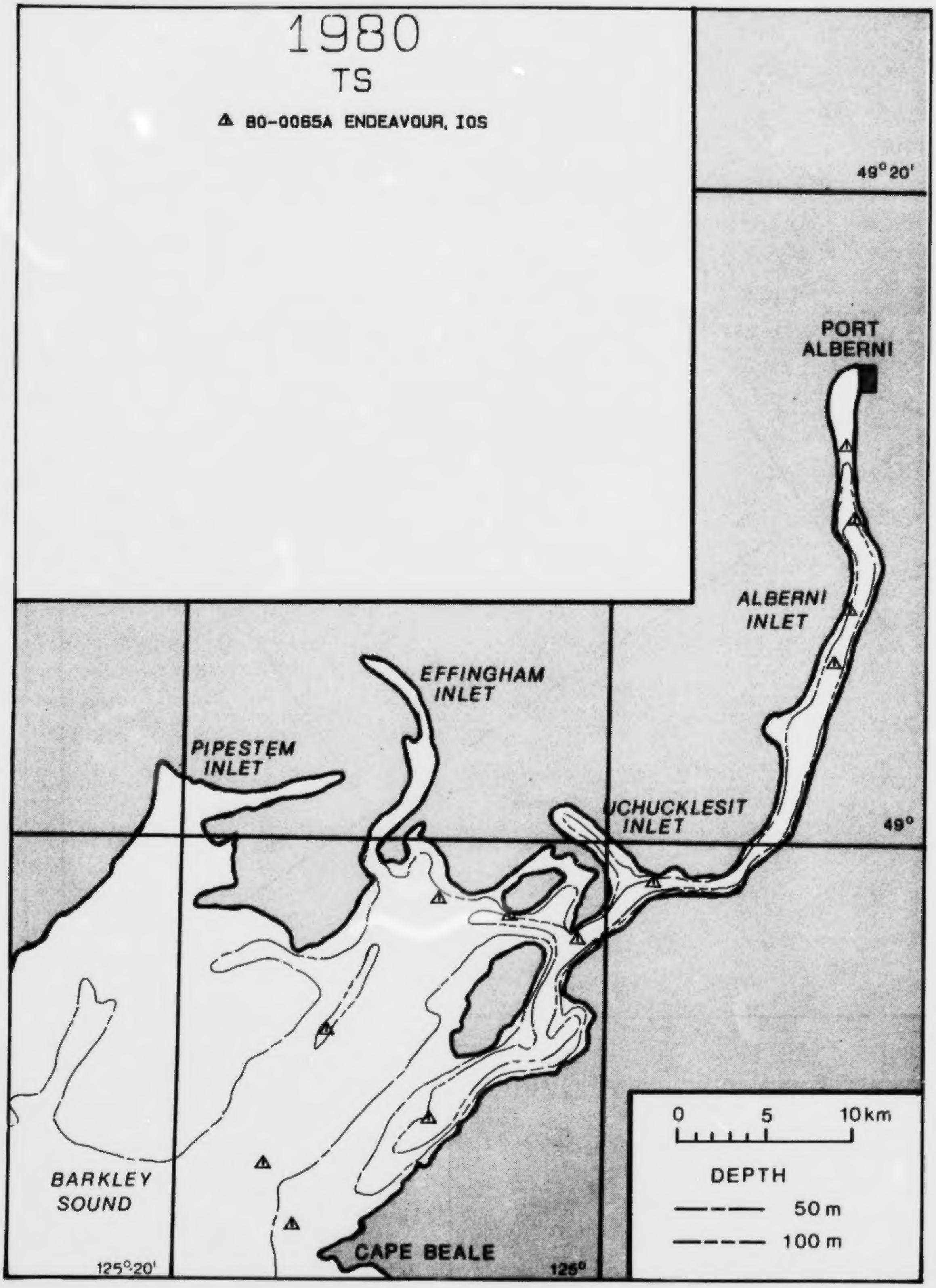

1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0064 VECTOR, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

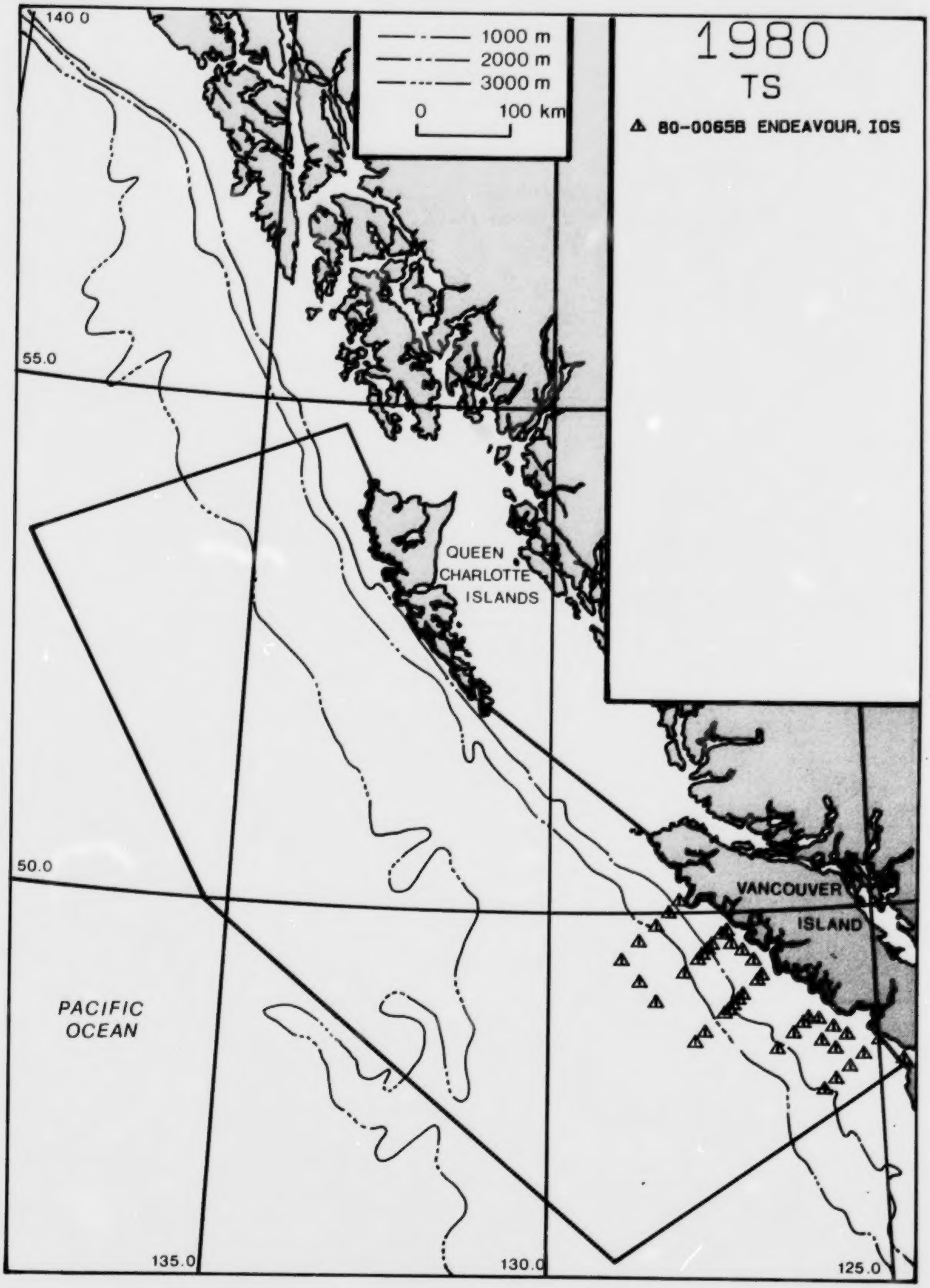

1980
TS
Δ 80-0064 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

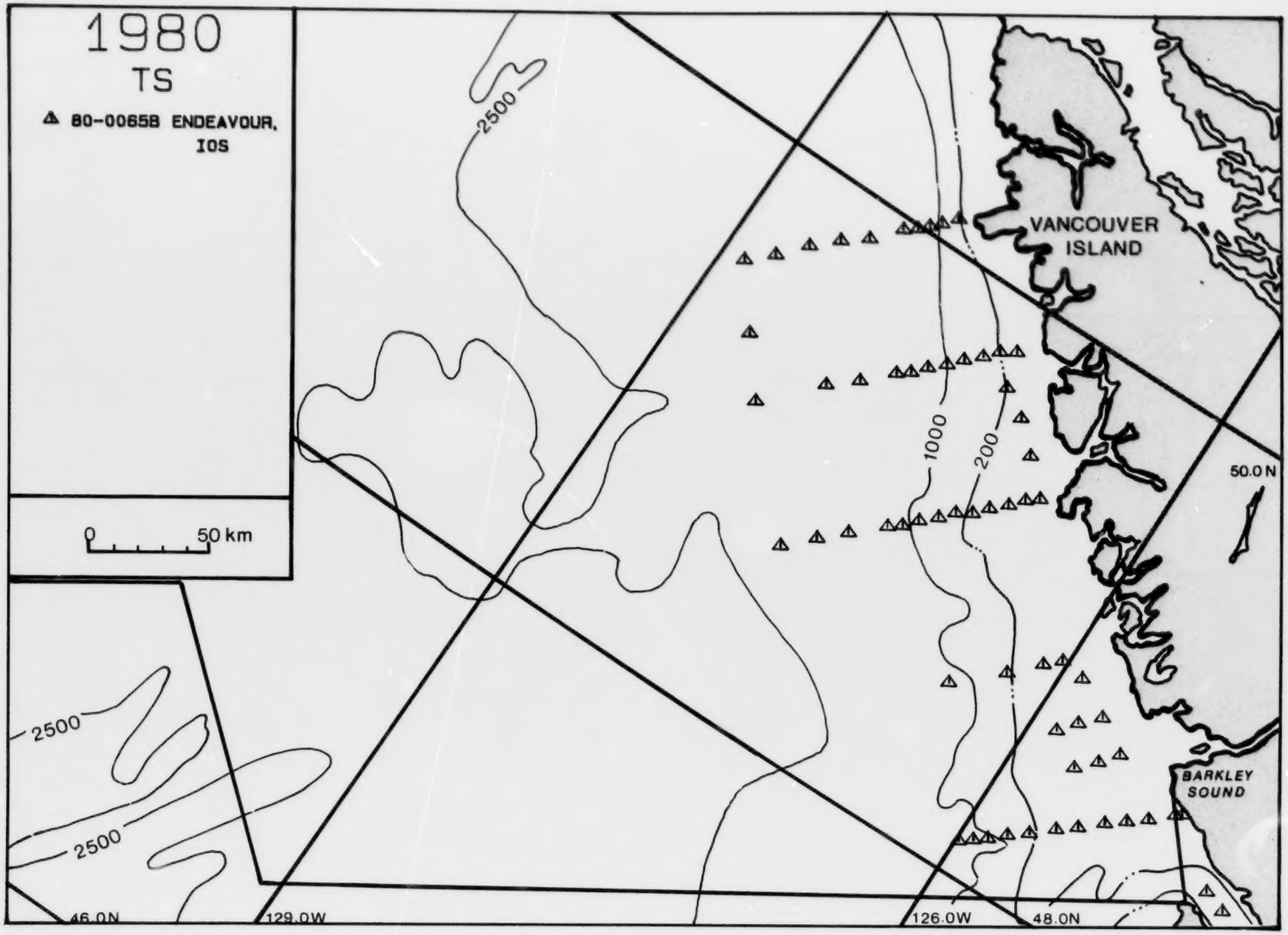

1980
TS
⚠ 80-0064 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

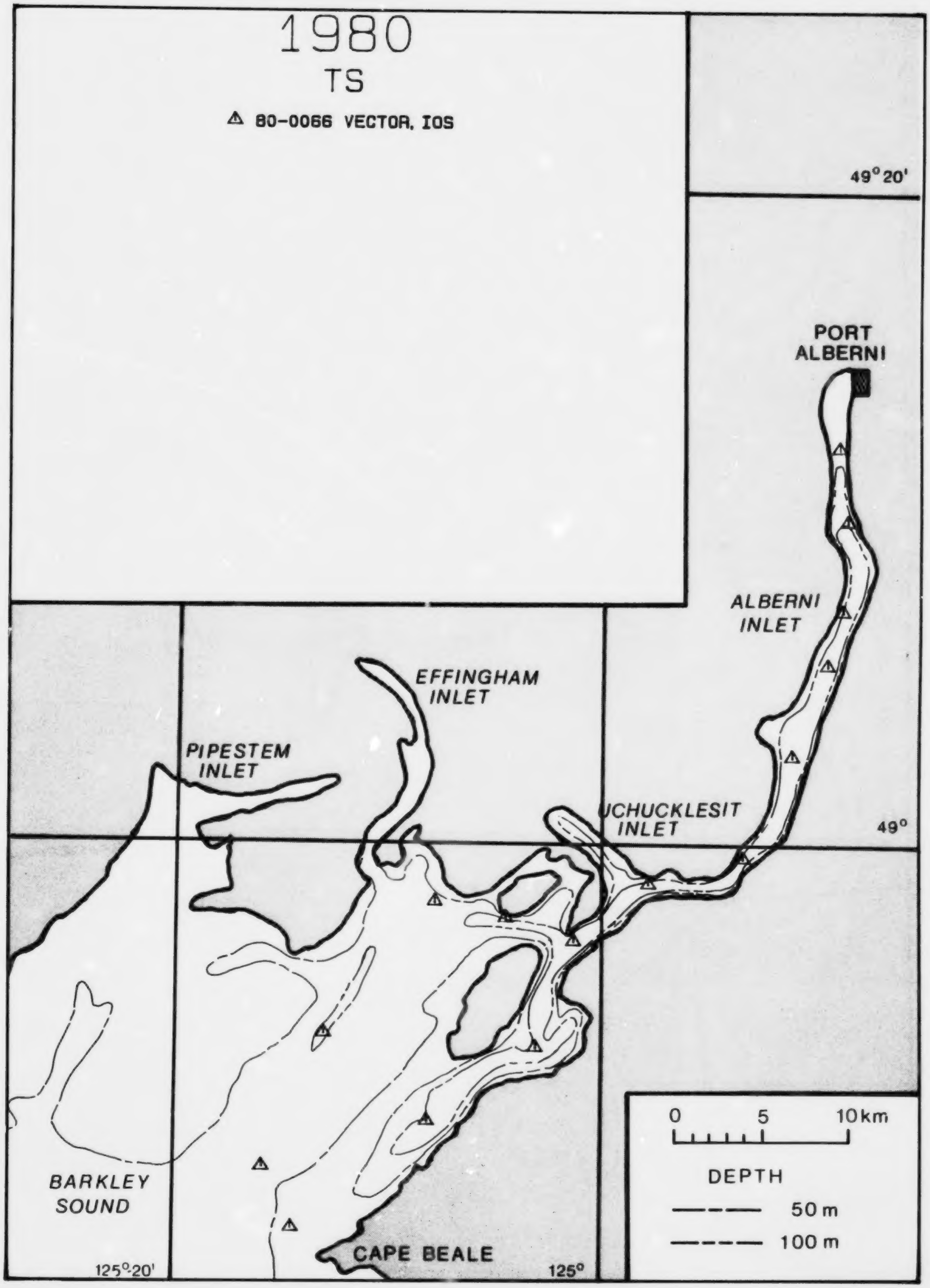

140.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0065A ENDEAVOUR, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

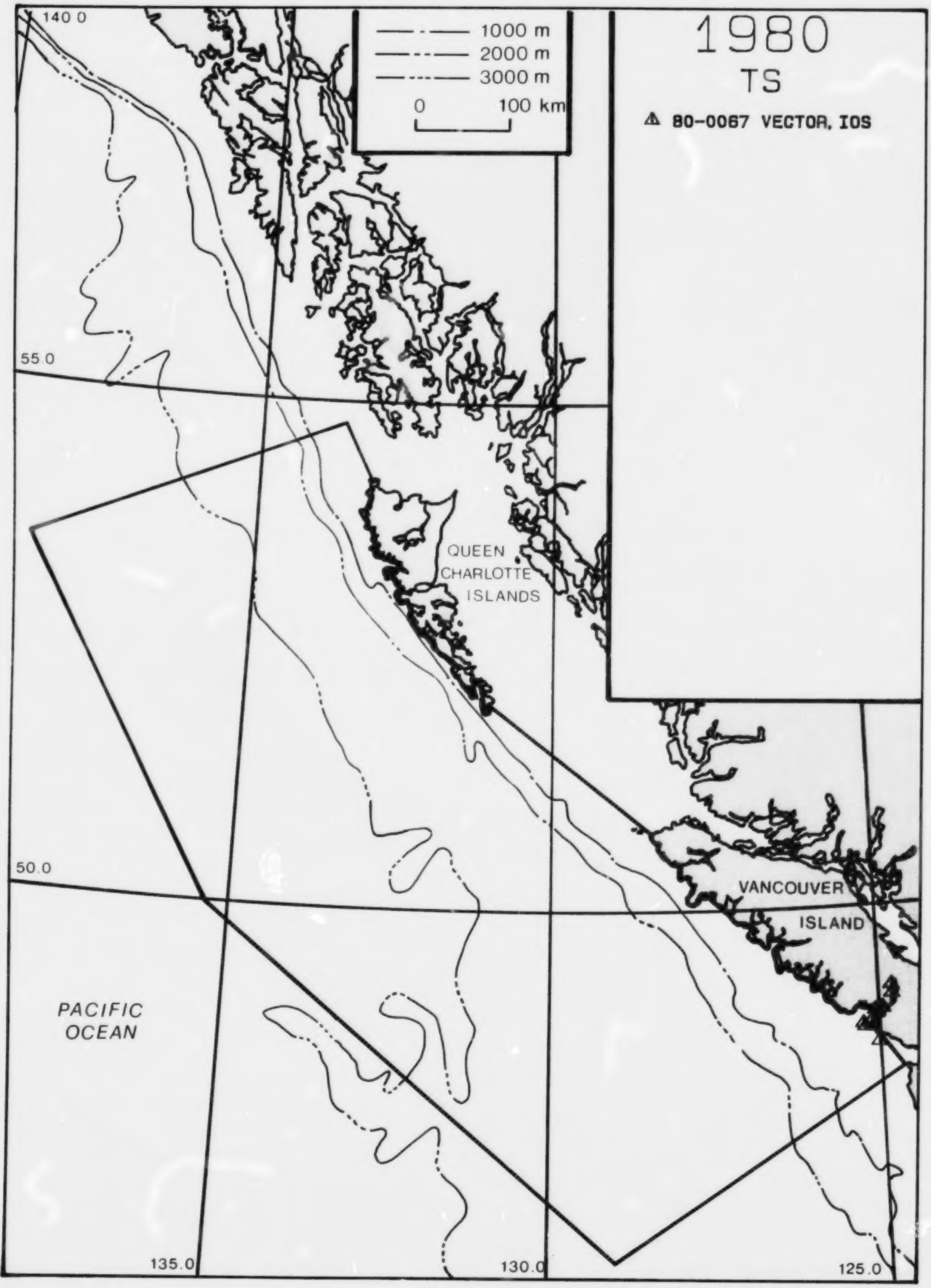

1980
TS
▲ 80-0065A ENDEAVOUR,
IOS
0
50 km
VANCOUVER
ISLAND
BARKLEY
SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

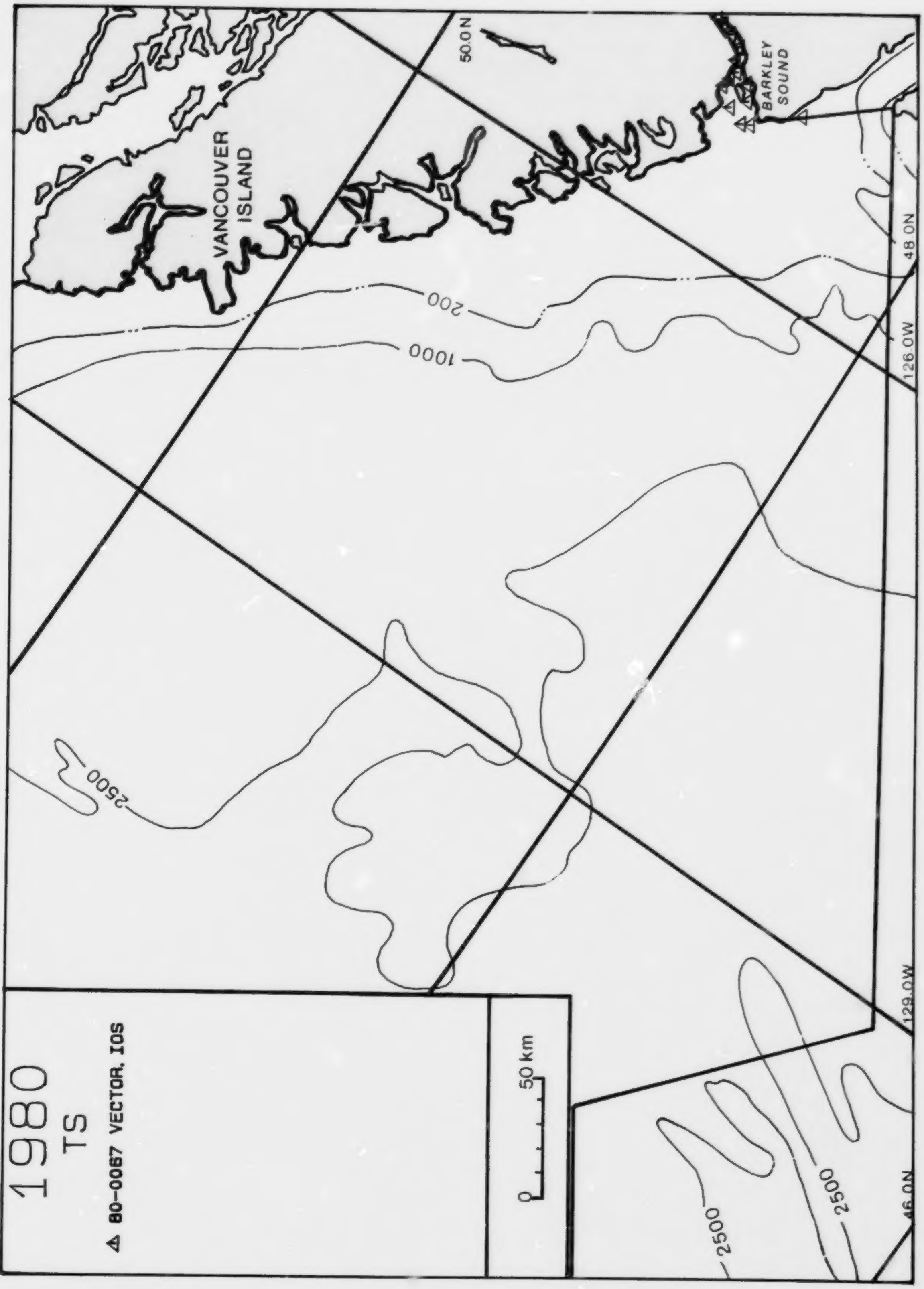

1980
TS
⚠ 80-0065A ENDEAVOUR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

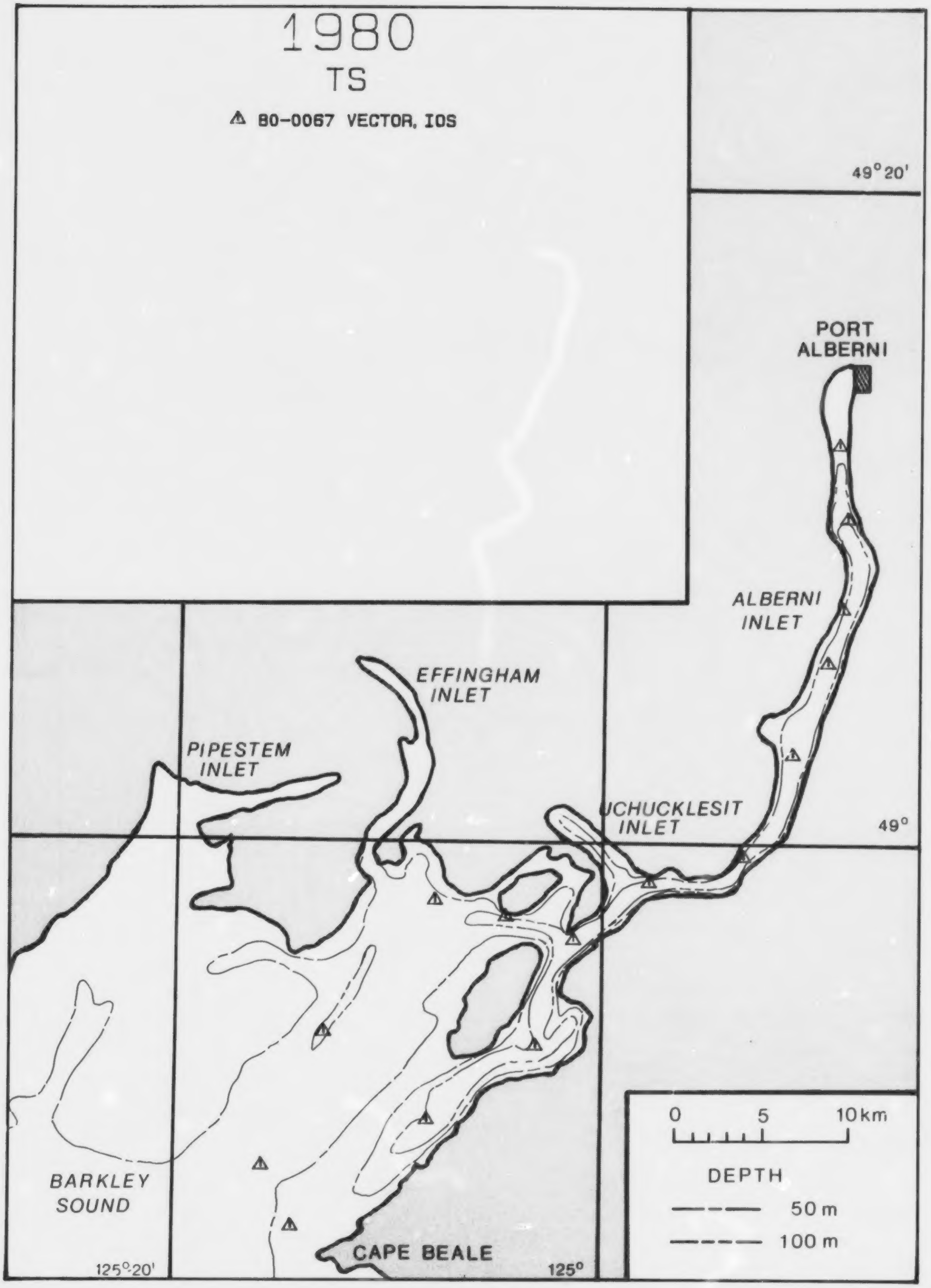

140.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
▲ 80-0065B ENDEAVOUR, IOS
55.0
QUEEN CHARLOTTE ISLANDS
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

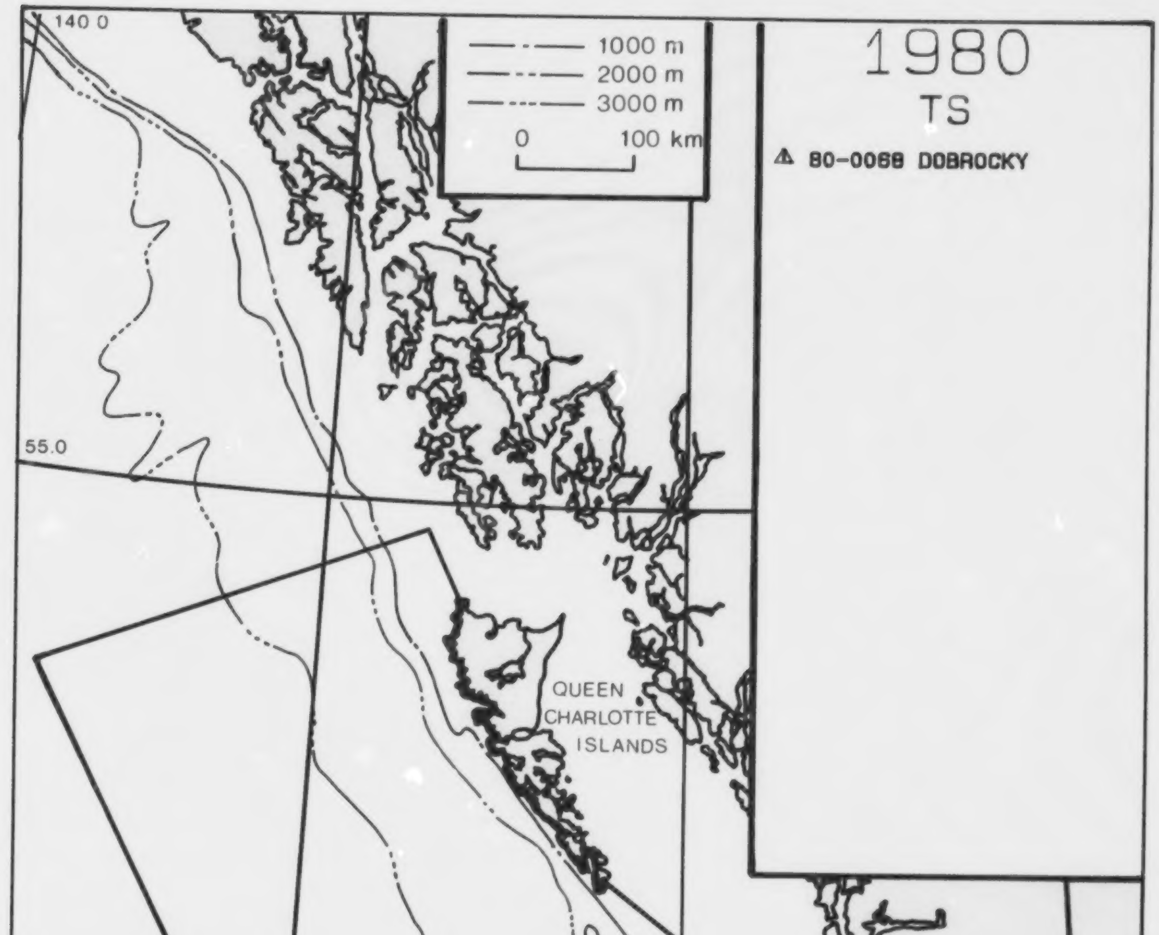

1980
TS
80-0065B ENDEAVOUR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

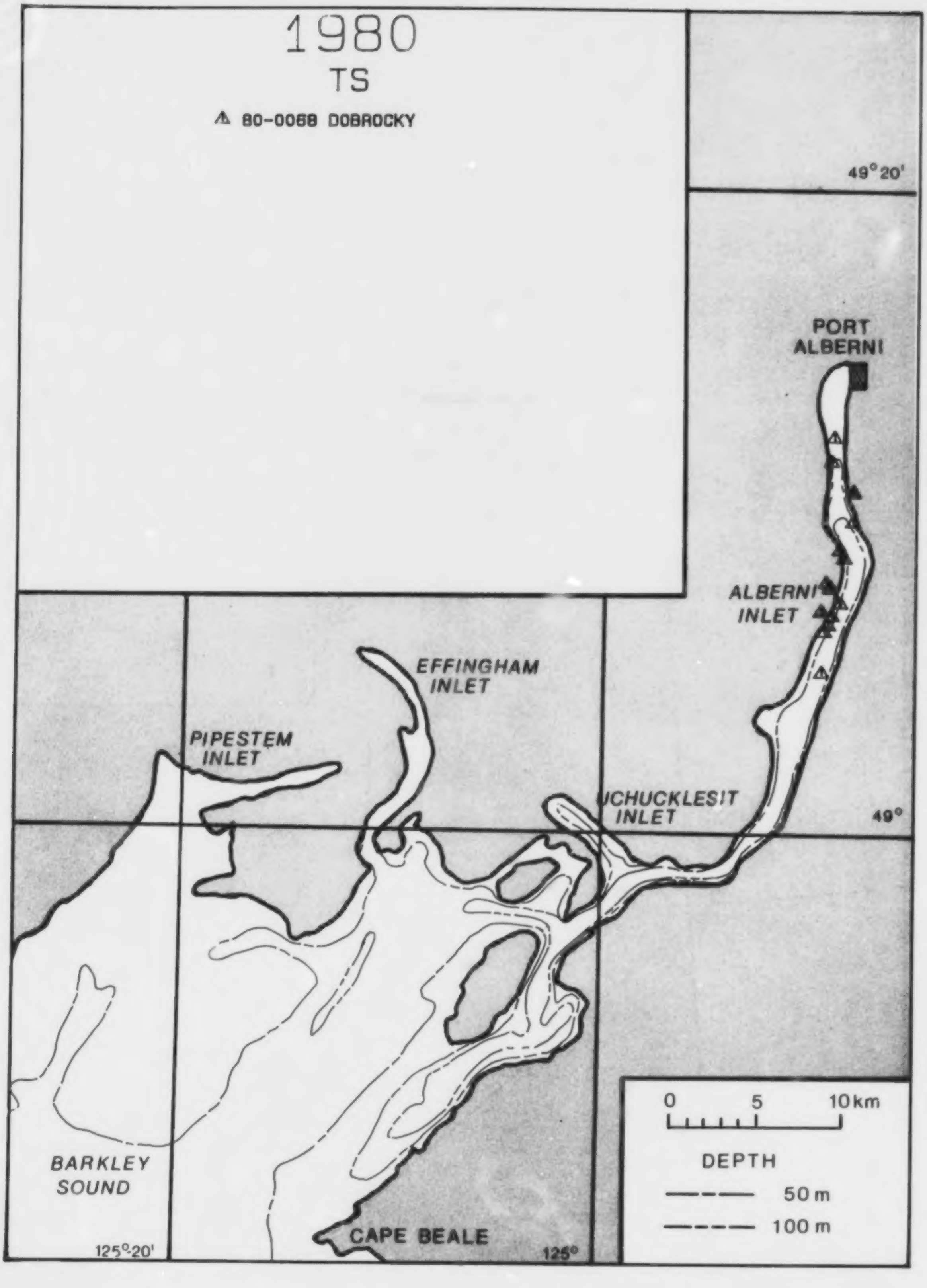

1980
TS
⚠ 80-0066 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

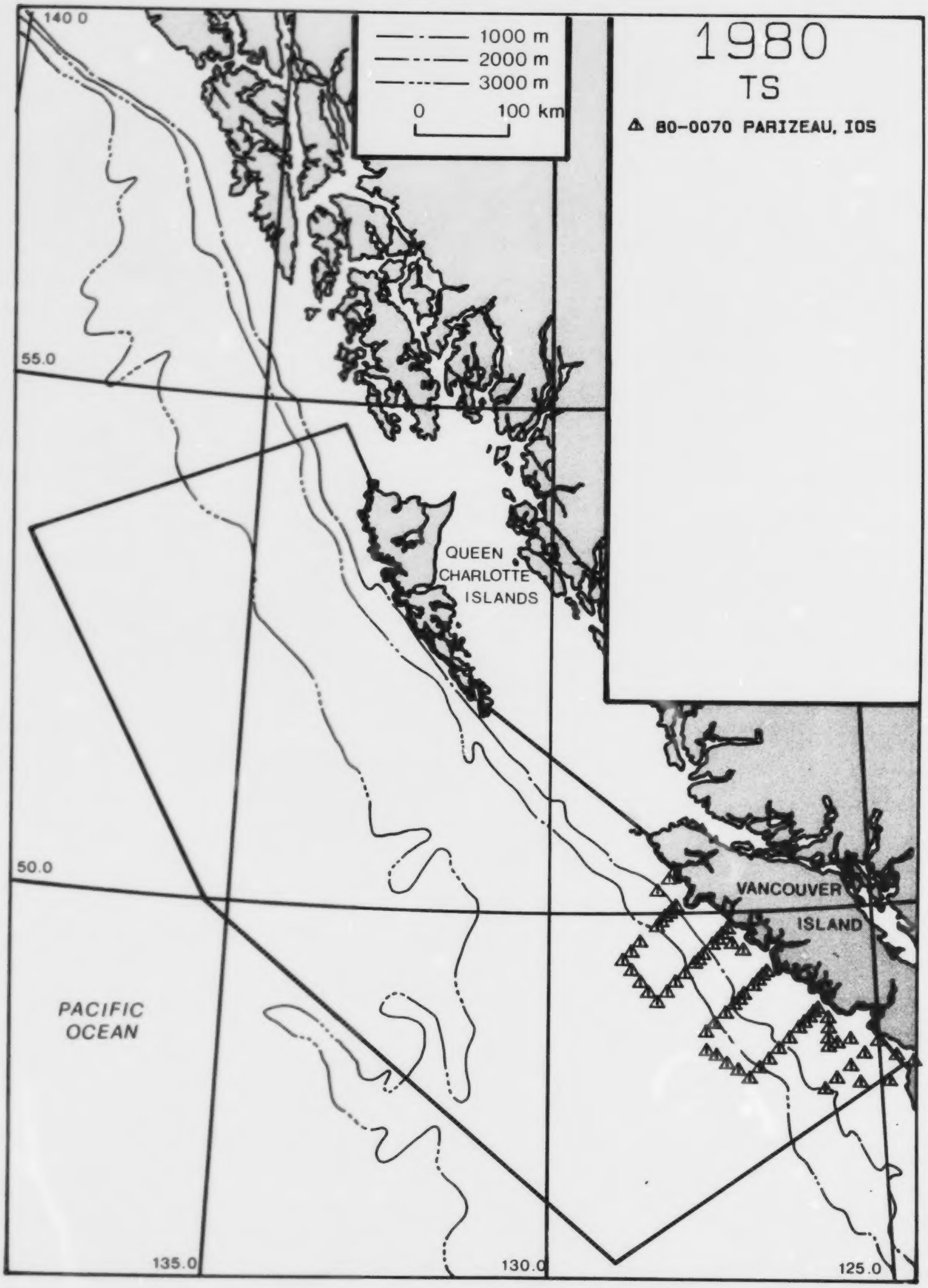

1980
TS
⚠ 80-0067 VECTOR, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

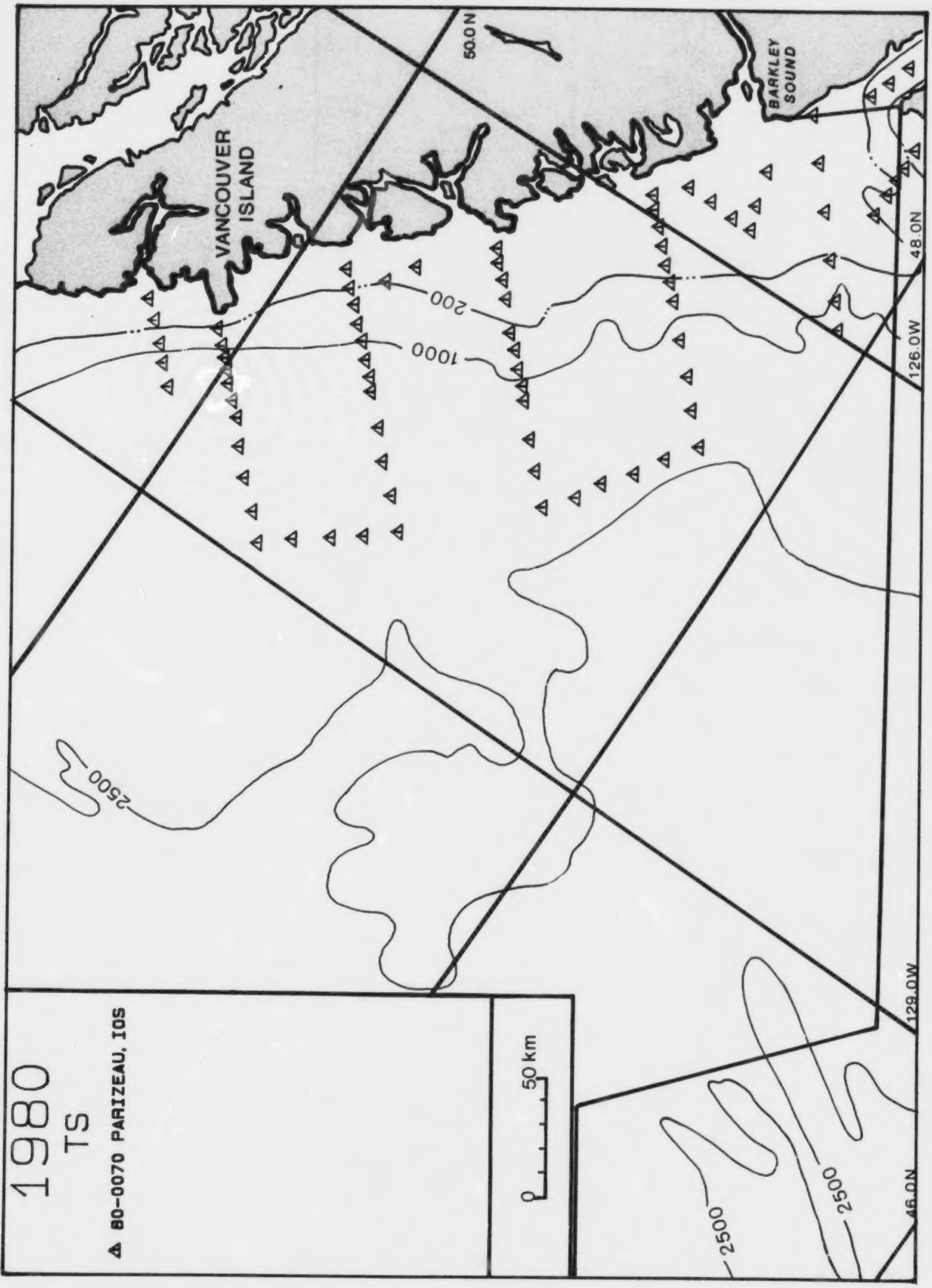

1980
TS
△ 80-0067 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48 ON
126.0W
129.0W
46.0N
200
1000
2500
2500
2500
2500

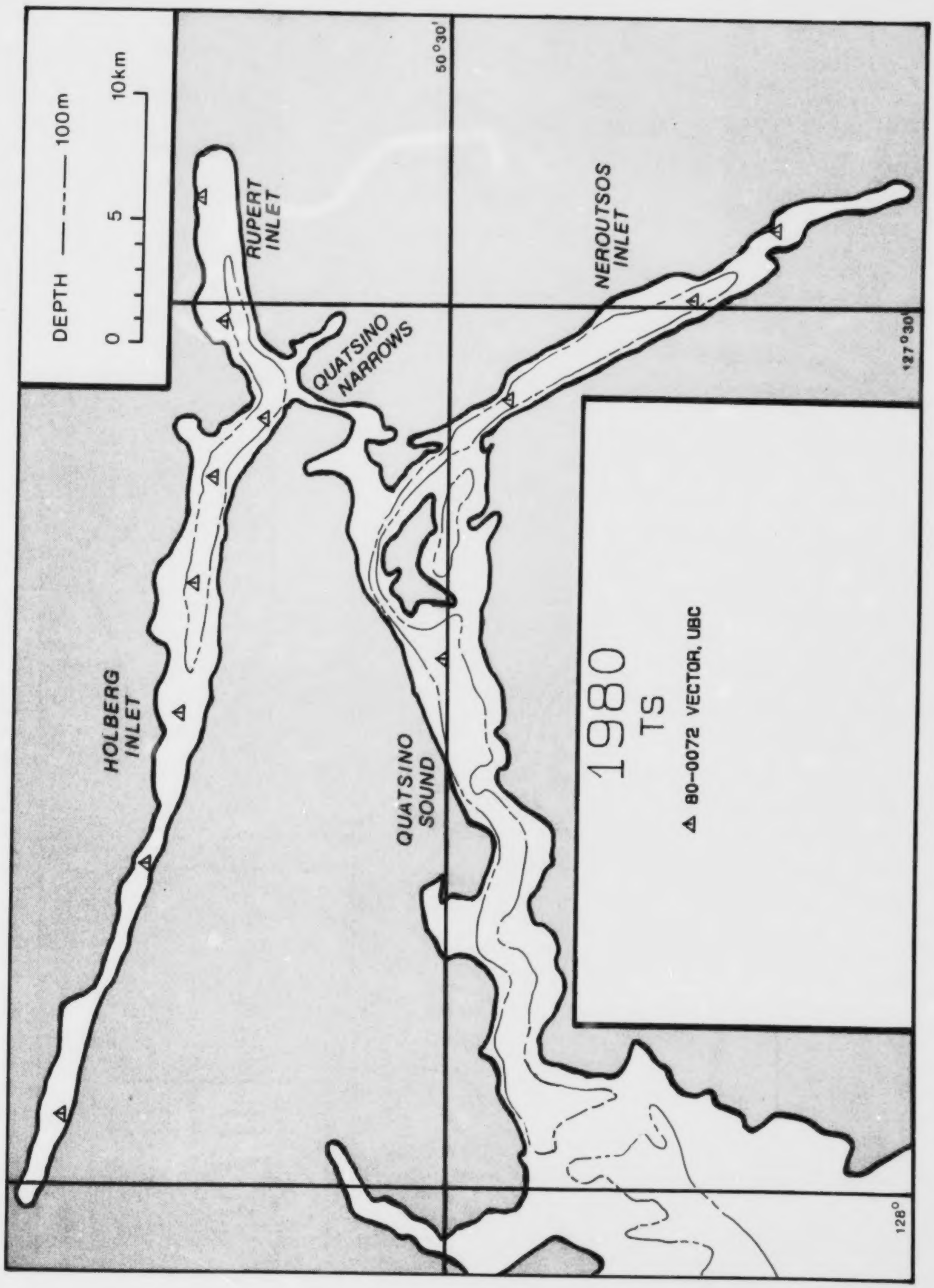

1980
TS
⚠ 80-0067 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

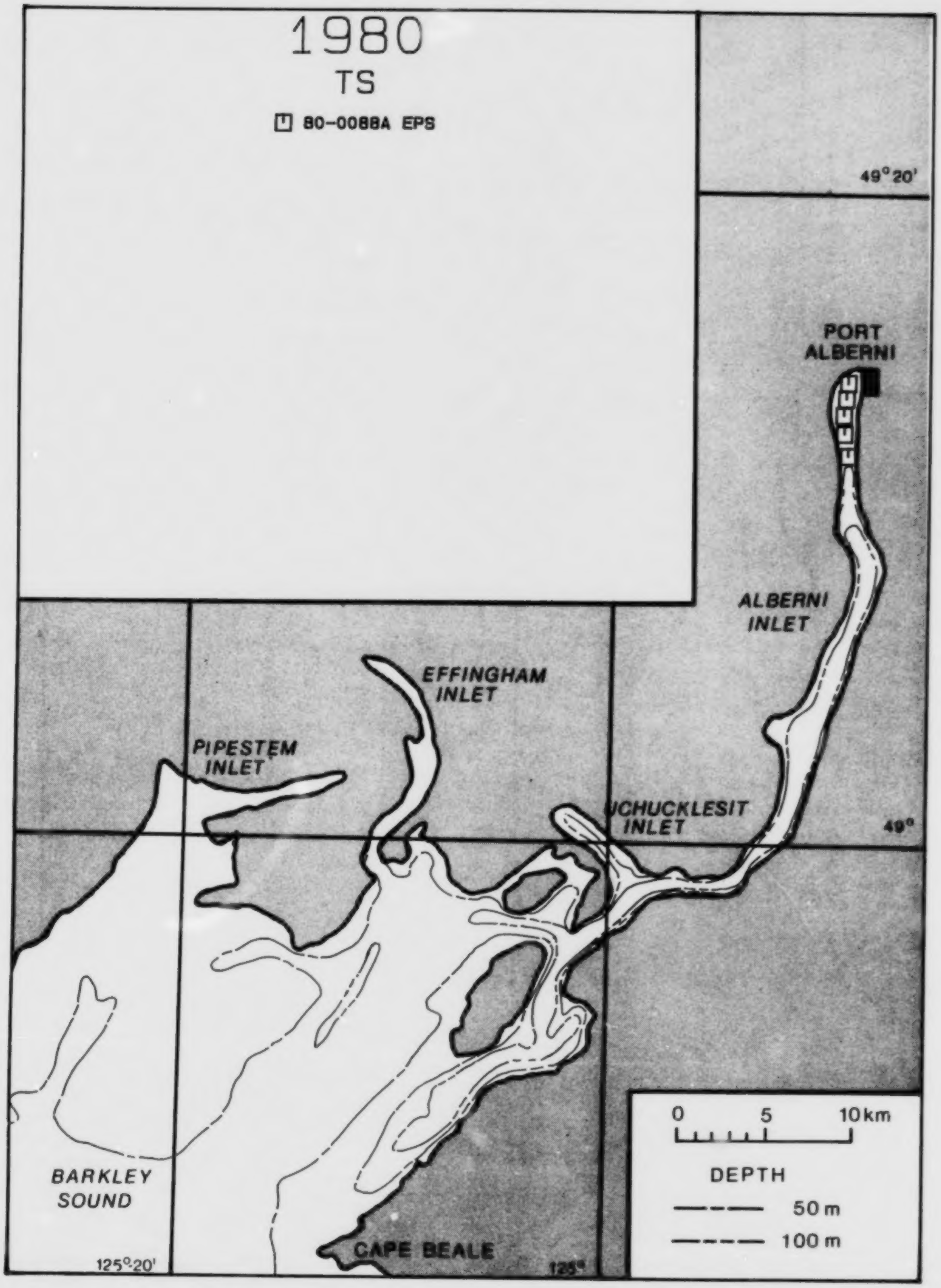

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
80-0068 DOBROCKY
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

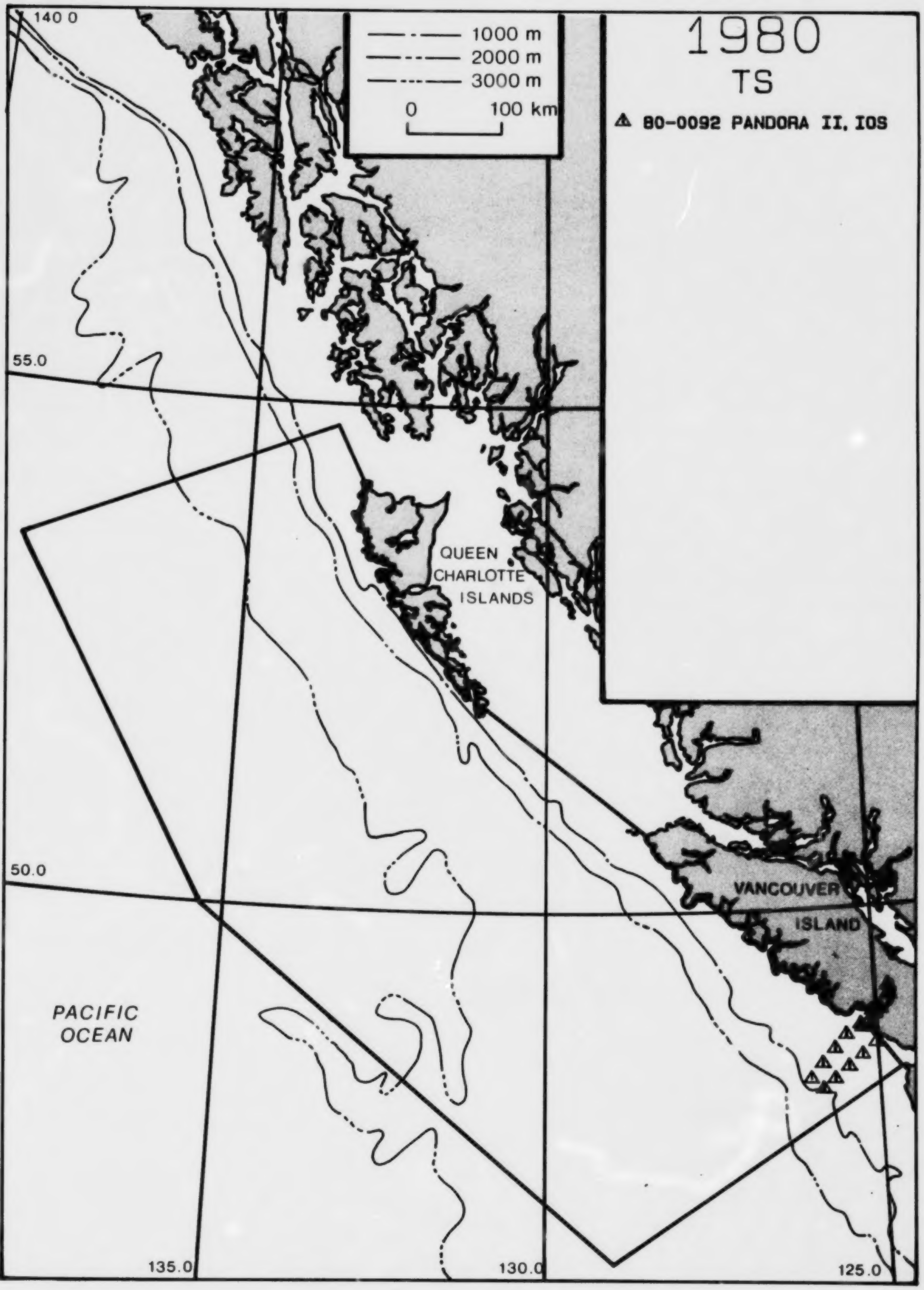

1980
TS
⚠ 80-0068 DOBROCKY
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

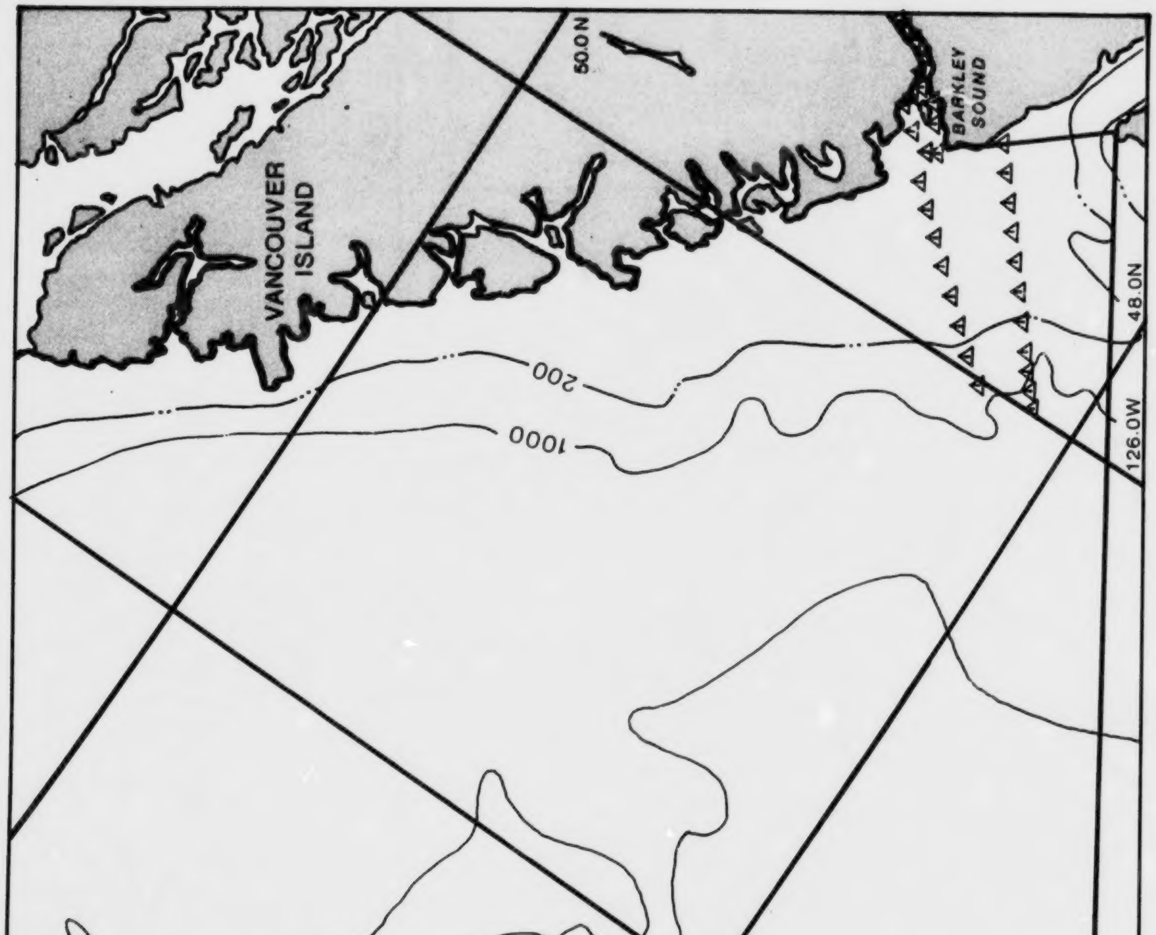

1000 m
2000 m
3000 m
0
100 km
1980
TS
△ 80-0070 PARIZEAU, IOS
140 0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

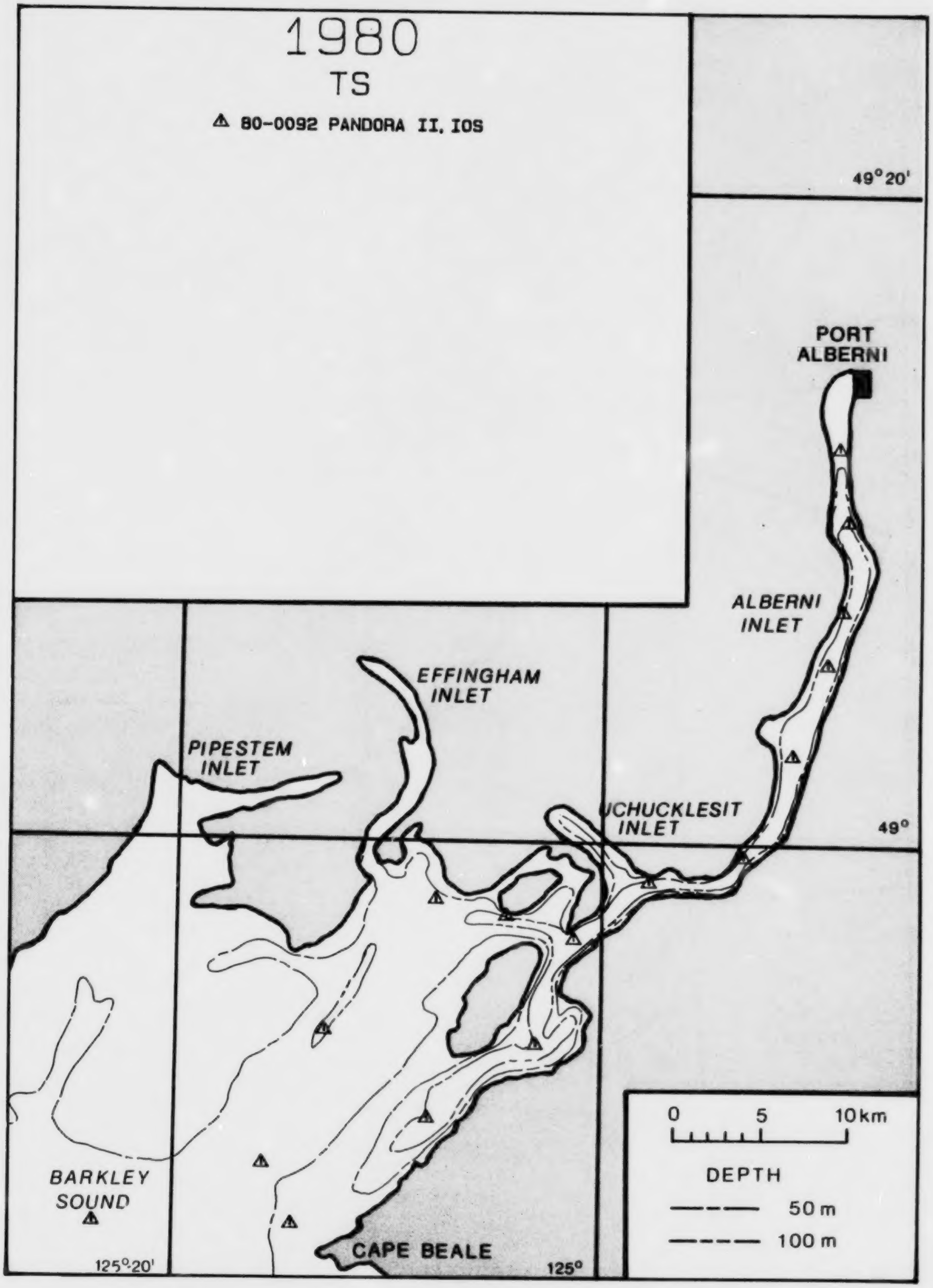

1980
Ts
80-0070 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

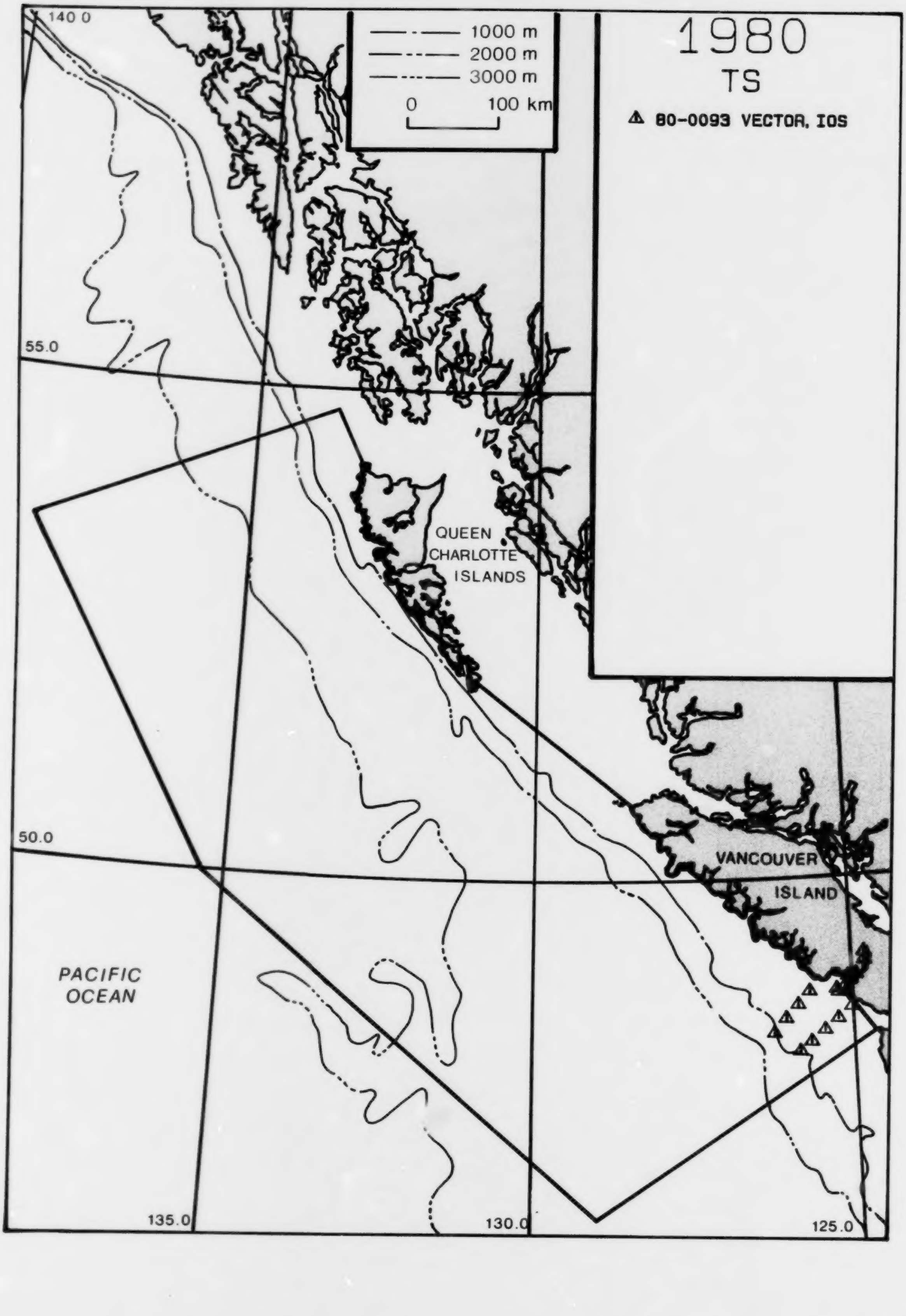

DEPTH ——— - - - 100m
0 5 10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
127°30'
128°
1980
TS
△ 80-0072 VECTOR, UBC

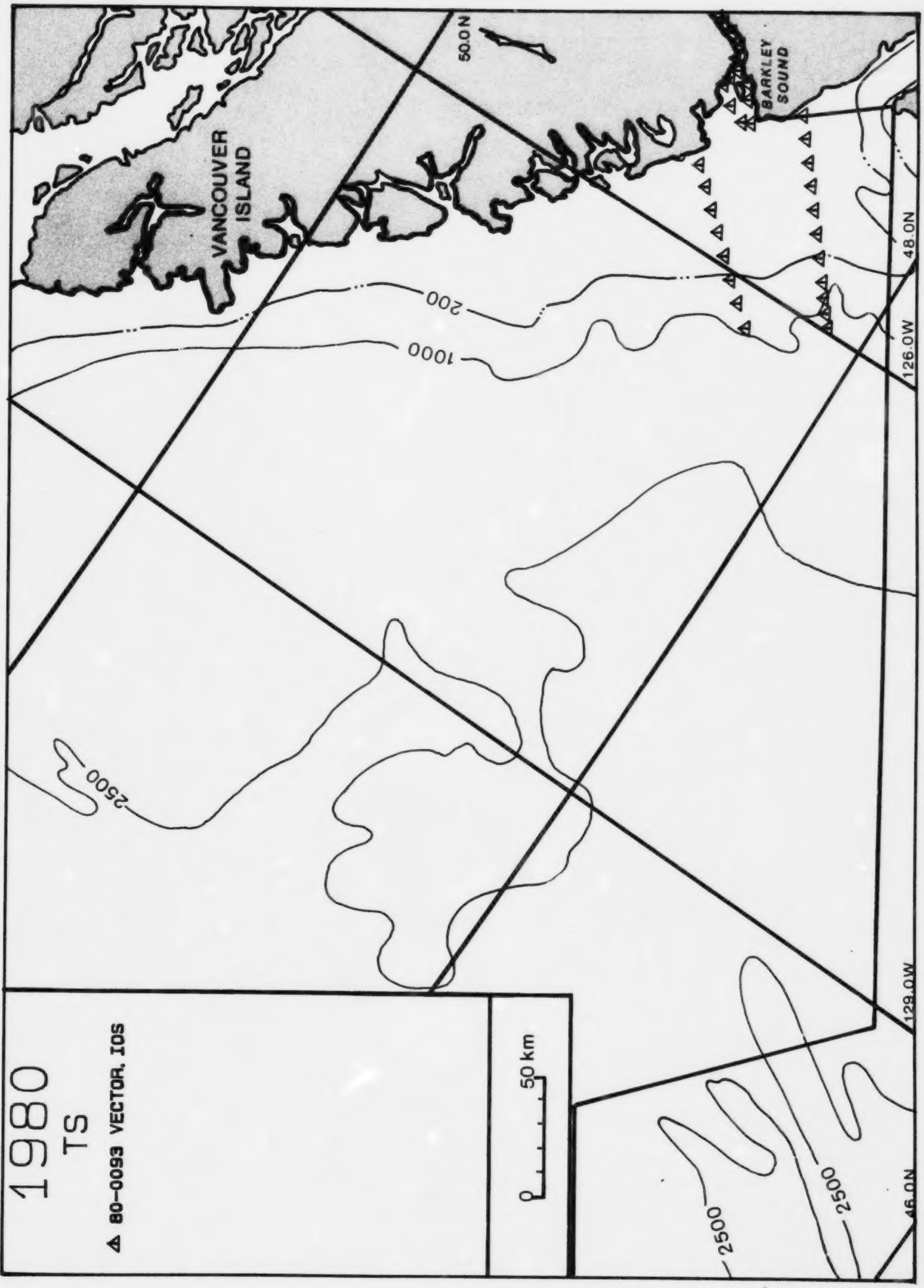

1980
TS
80-0088A EPS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125° 20'
125°
0
5
10 km
DEPTH
50 m
100 m

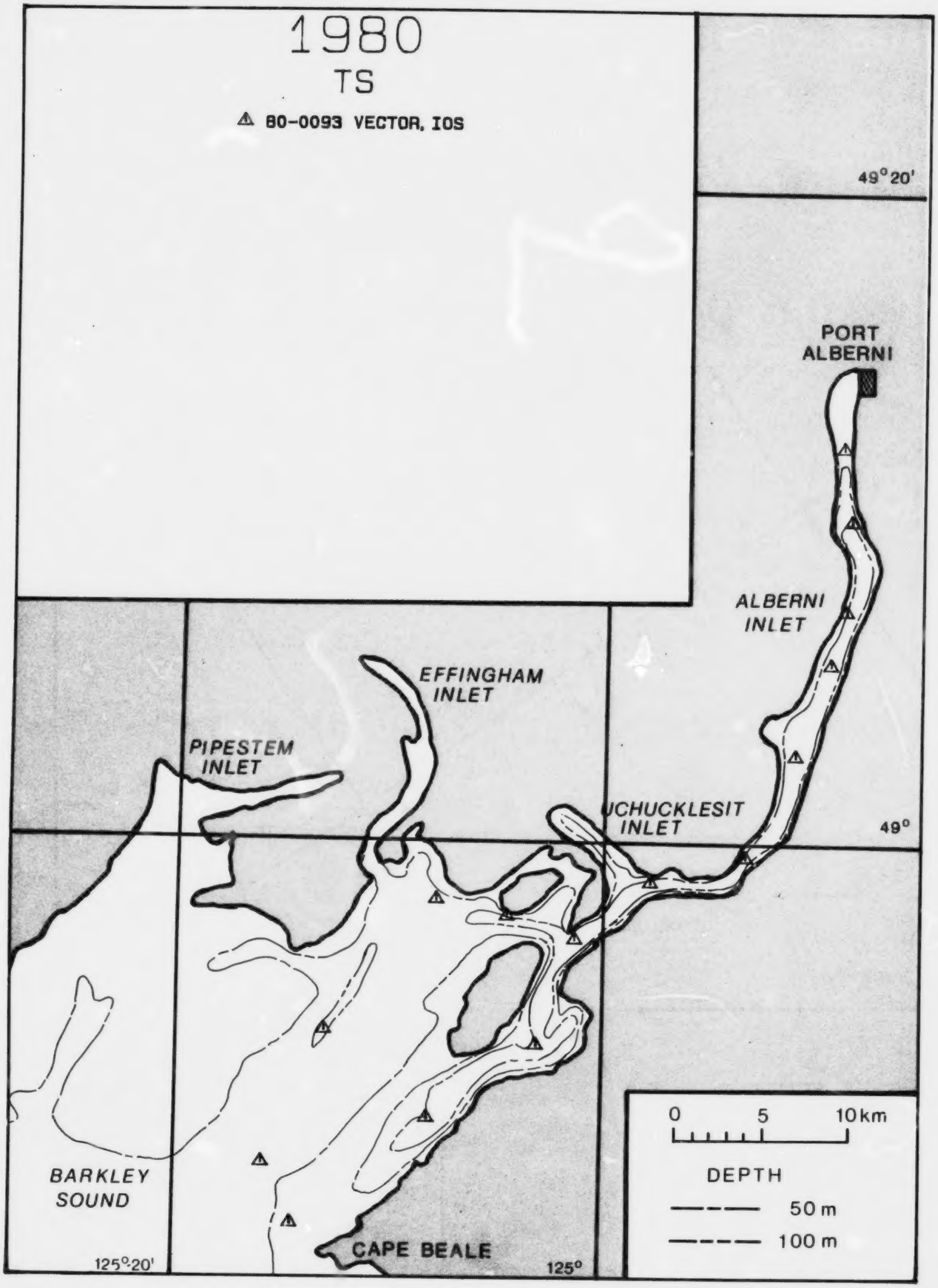

1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0092 PANDORA II, IOS
140 0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

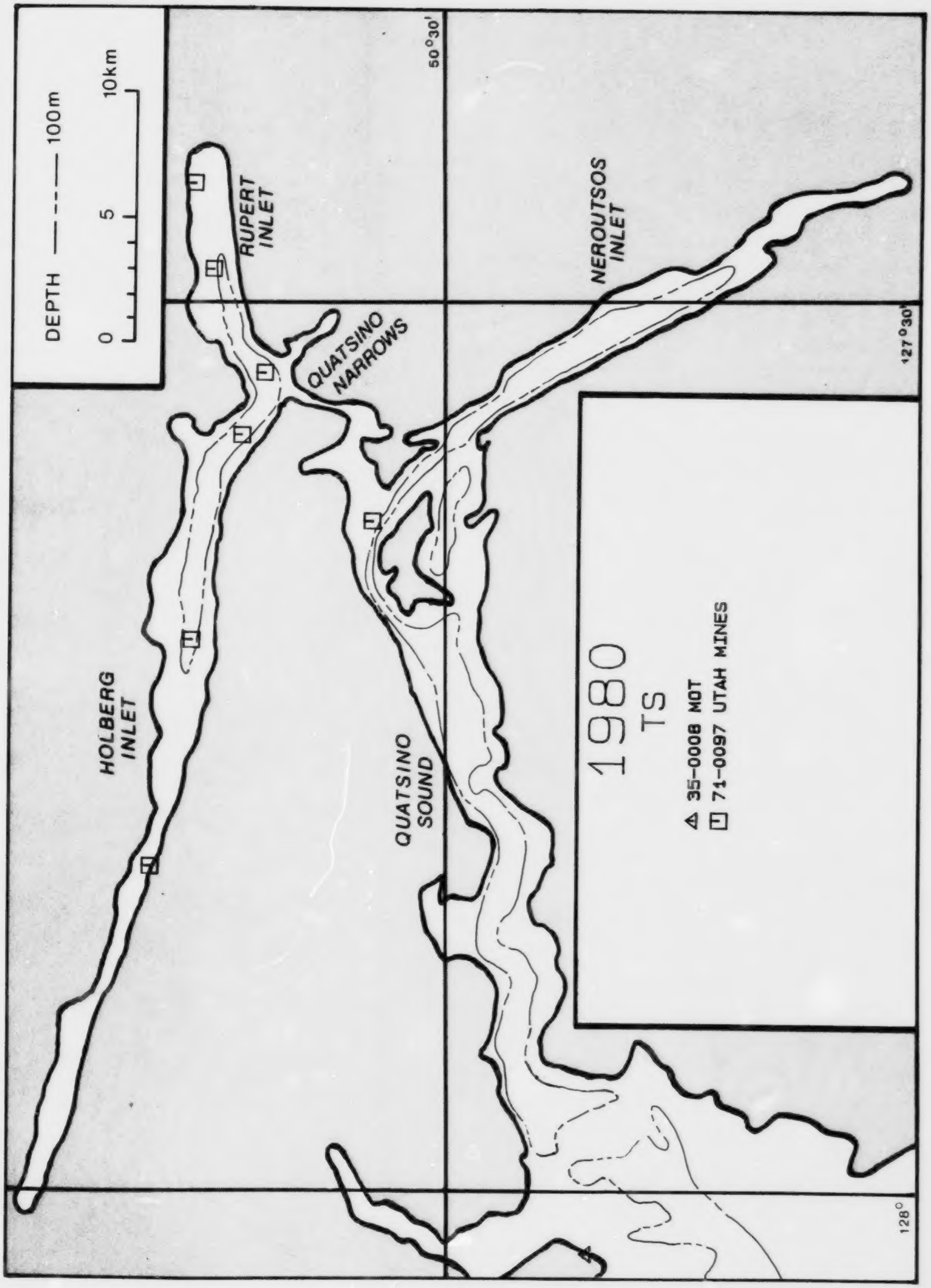

1980
Ts
∆ 80-0092 PANDORA II, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
128.0W
200
1000
2500
2500
2500
2500

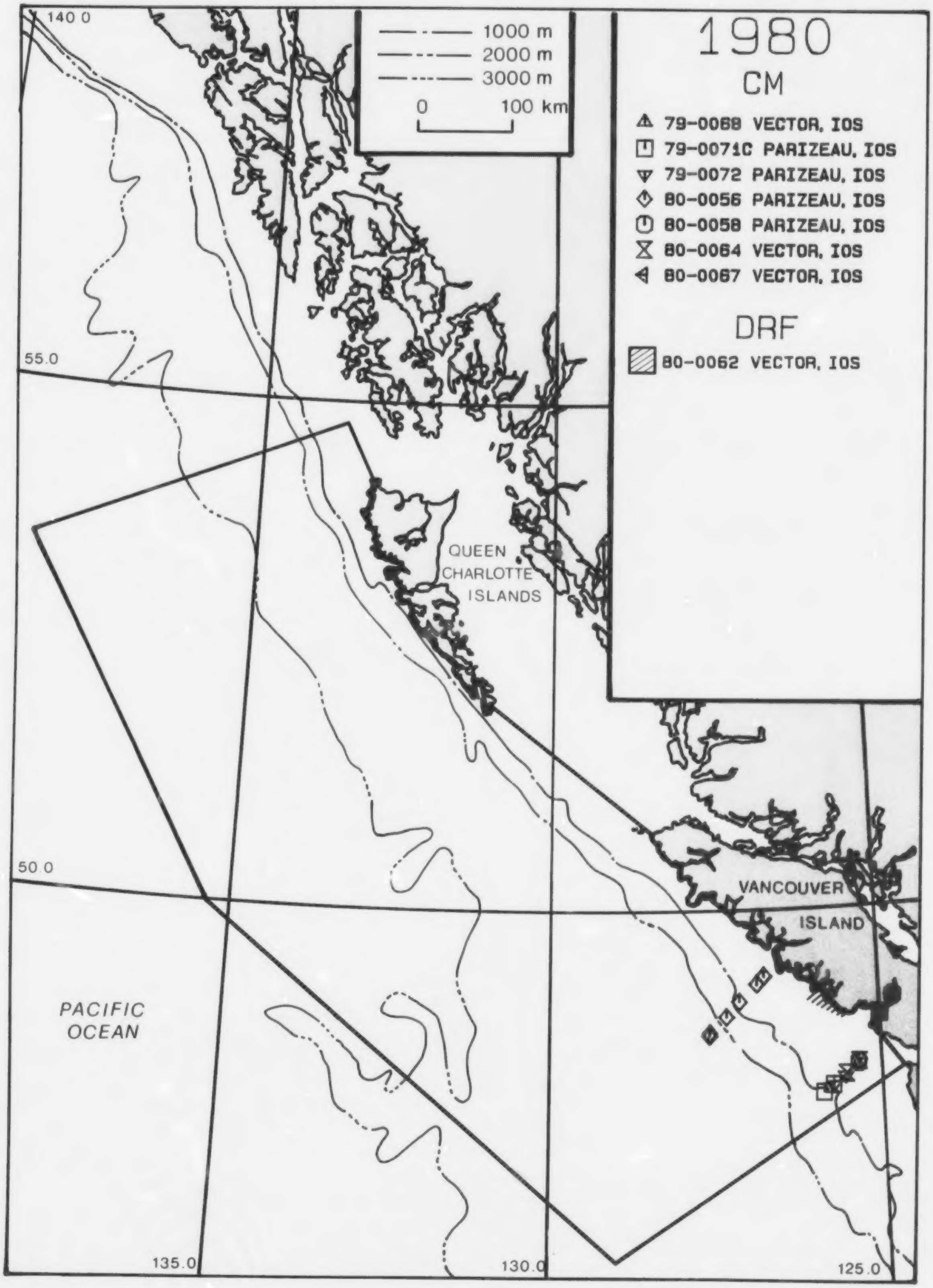

1980
TS
⚠ 80-0092 PANDORA II, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

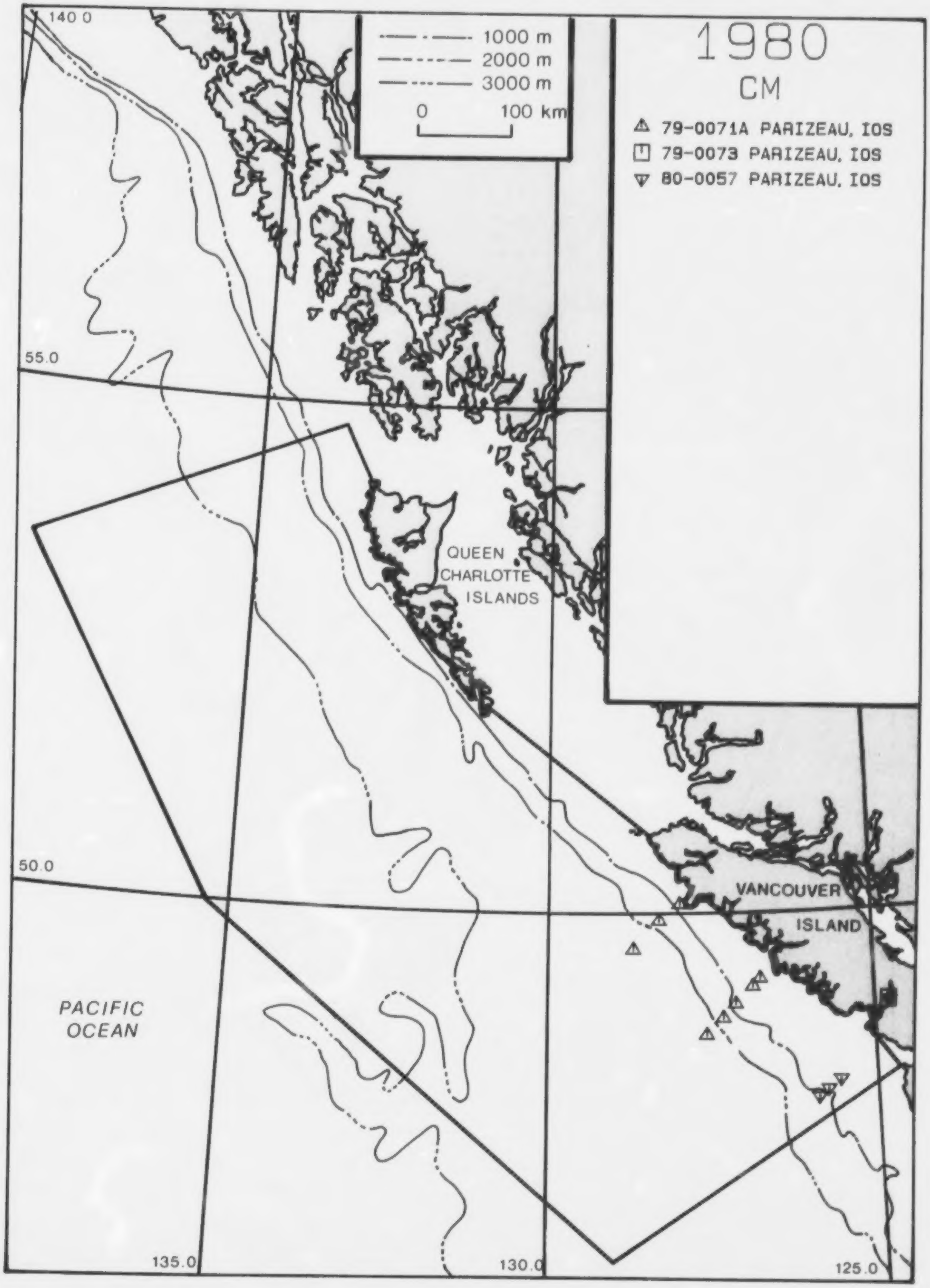

140.0
1000 m
2000 m
3000 m
0
100 km
1980
TS
⚠ 80-0093 VECTOR, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

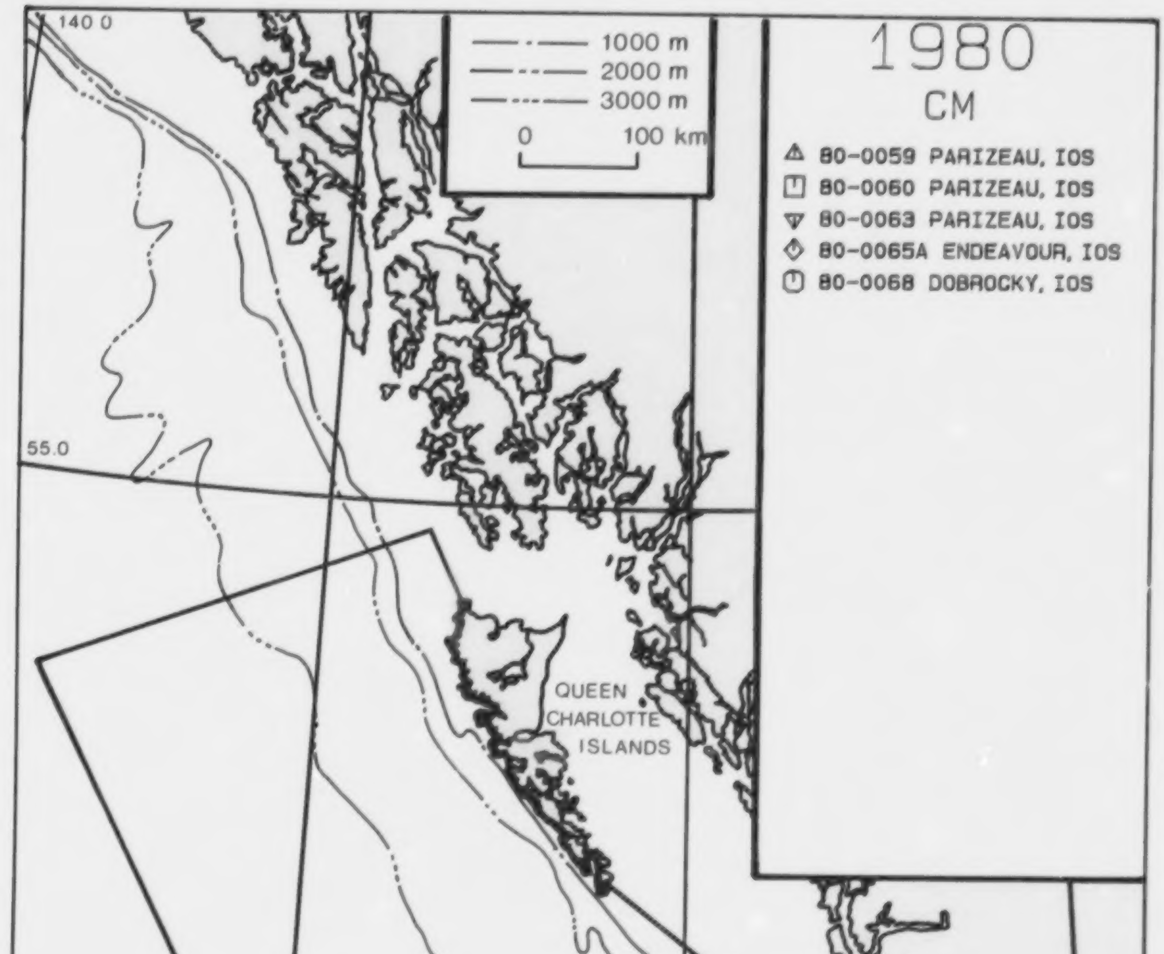

1980
TS
△ 80-0093 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

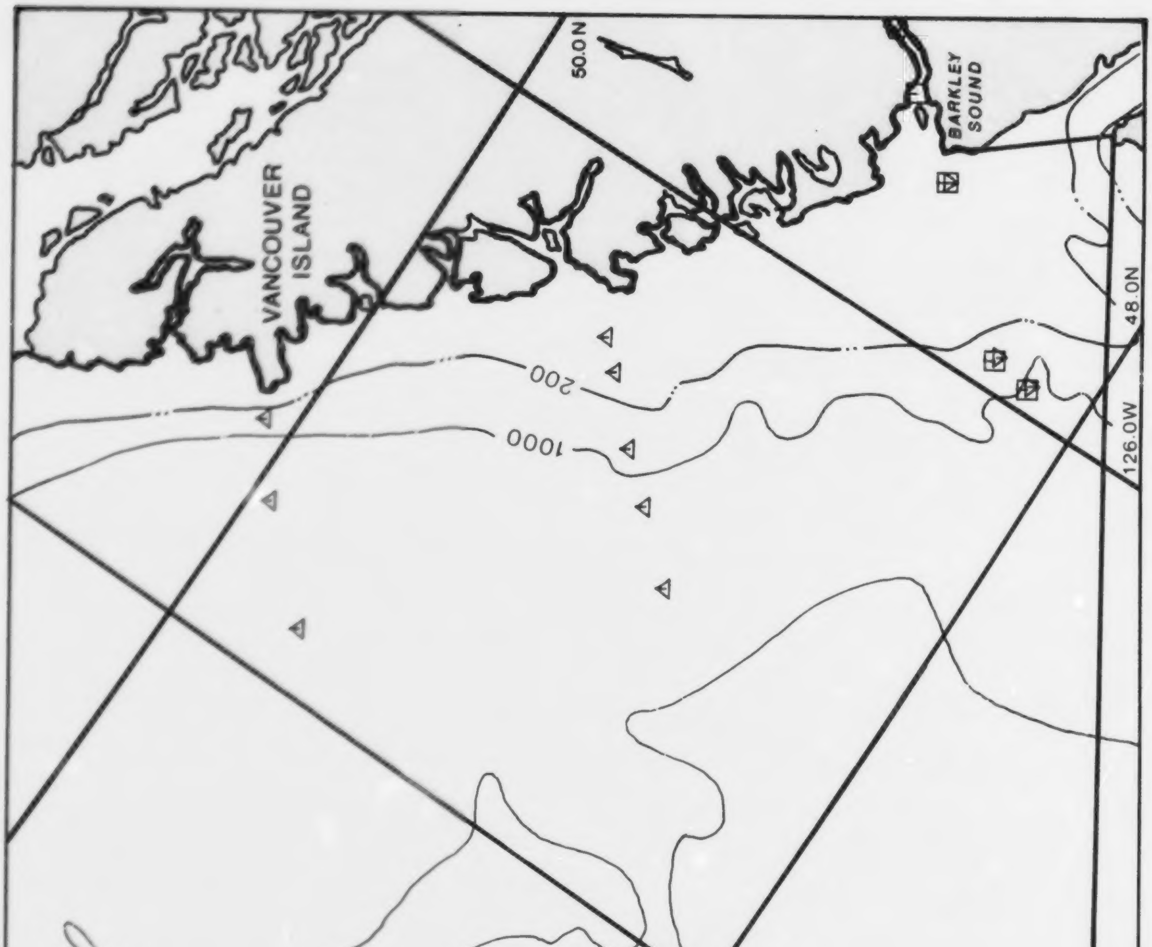

1980
TS
⚠ 80-0093 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

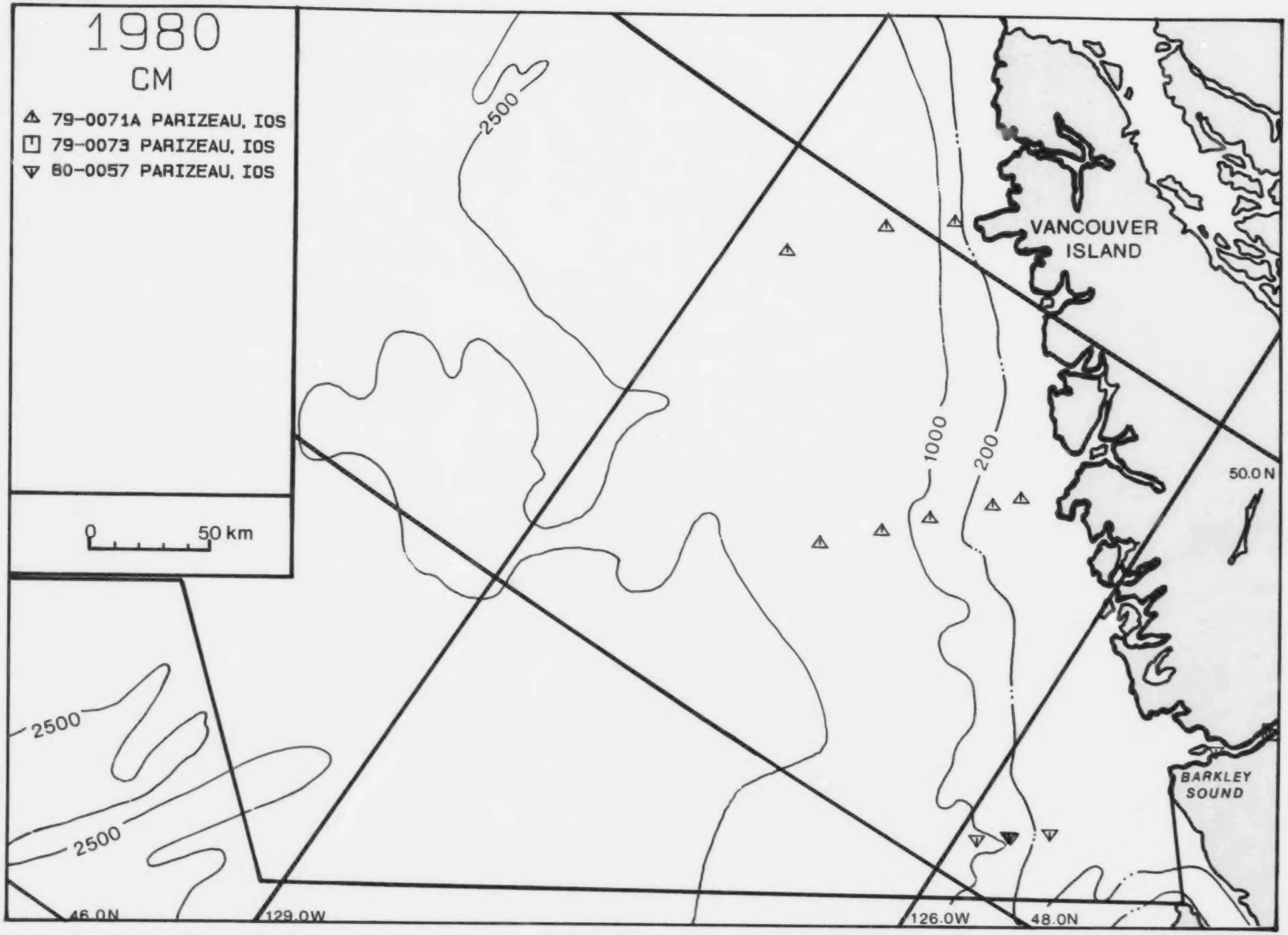

DEPTH ---- 100m
0 5 10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
127°30'
128°
1980
Ts
▲ 35-0008 MOT
☐ 71-0097 UTAH MINES

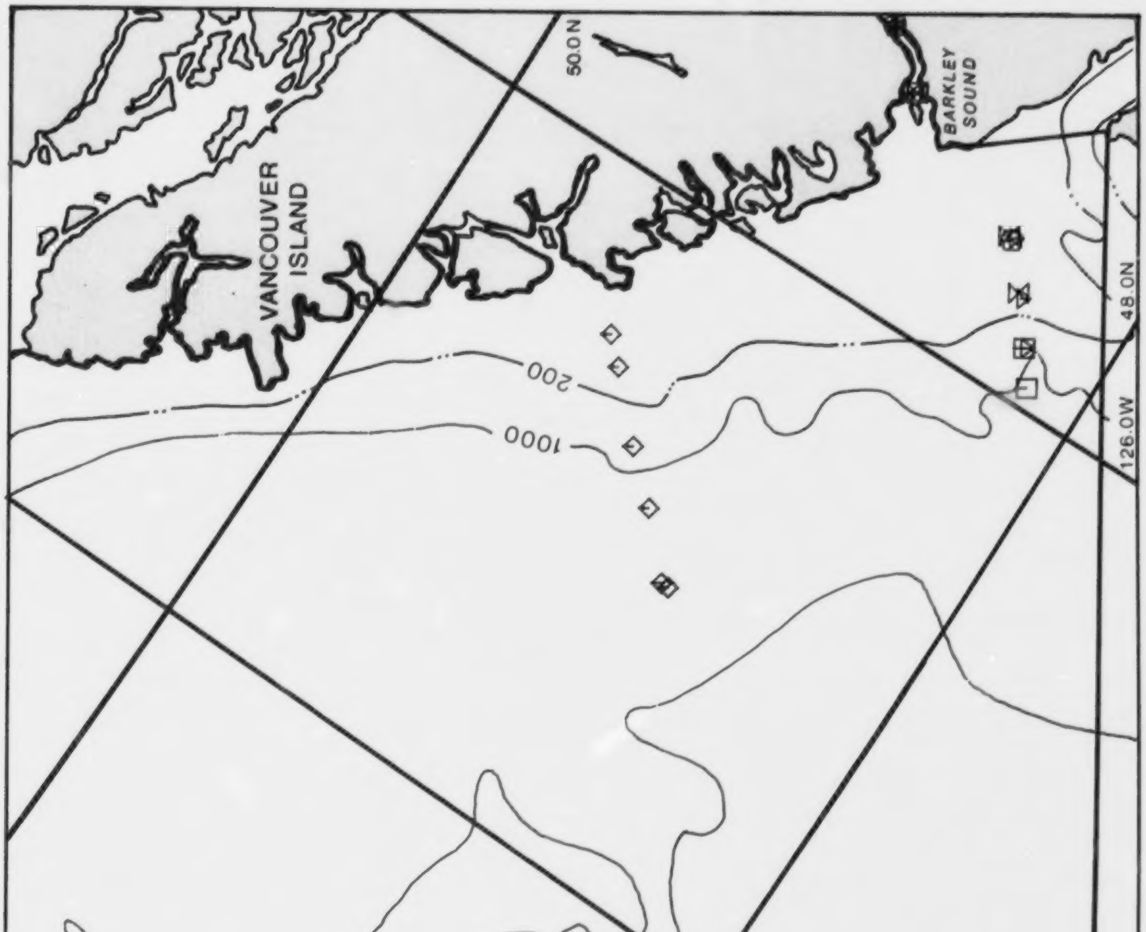

1000 m
2000 m
3000 m
0
100 km
1980
CM
79-0068 VECTOR, IOS
79-0071C PARIZEAU, IOS
79-0072 PARIZEAU, IOS
80-0056 PARIZEAU, IOS
80-0058 PARIZEAU, IOS
80-0064 VECTOR, IOS
80-0067 VECTOR, IOS
DRF
80-0062 VECTOR, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

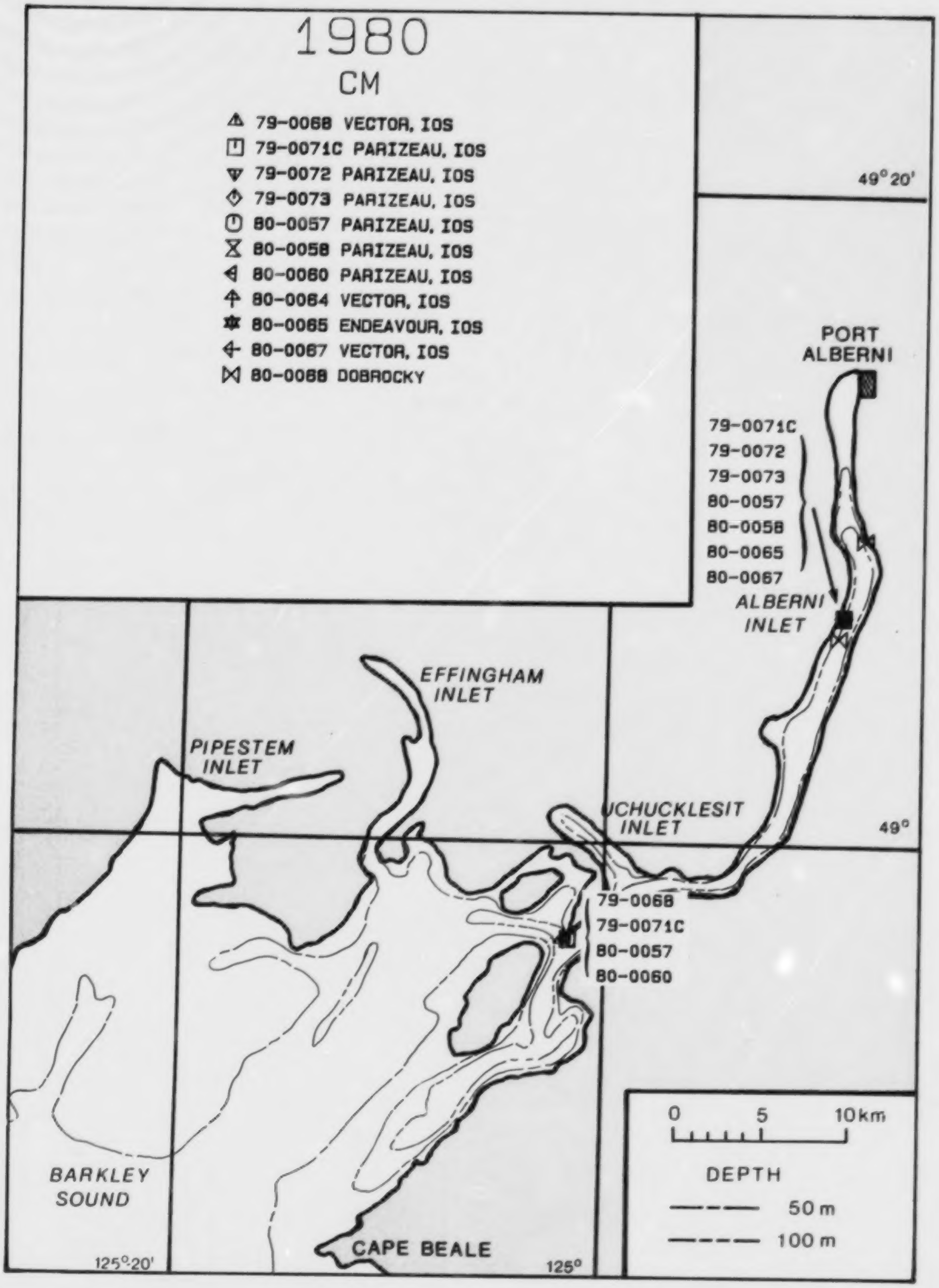

140.0
1000 m
2000 m
3000 m
0
100 km
1980
CM
△ 79-0071A PARIZEAU, IOS
☐ 79-0073 PARIZEAU, IOS
▽ 80-0057 PARIZEAU, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

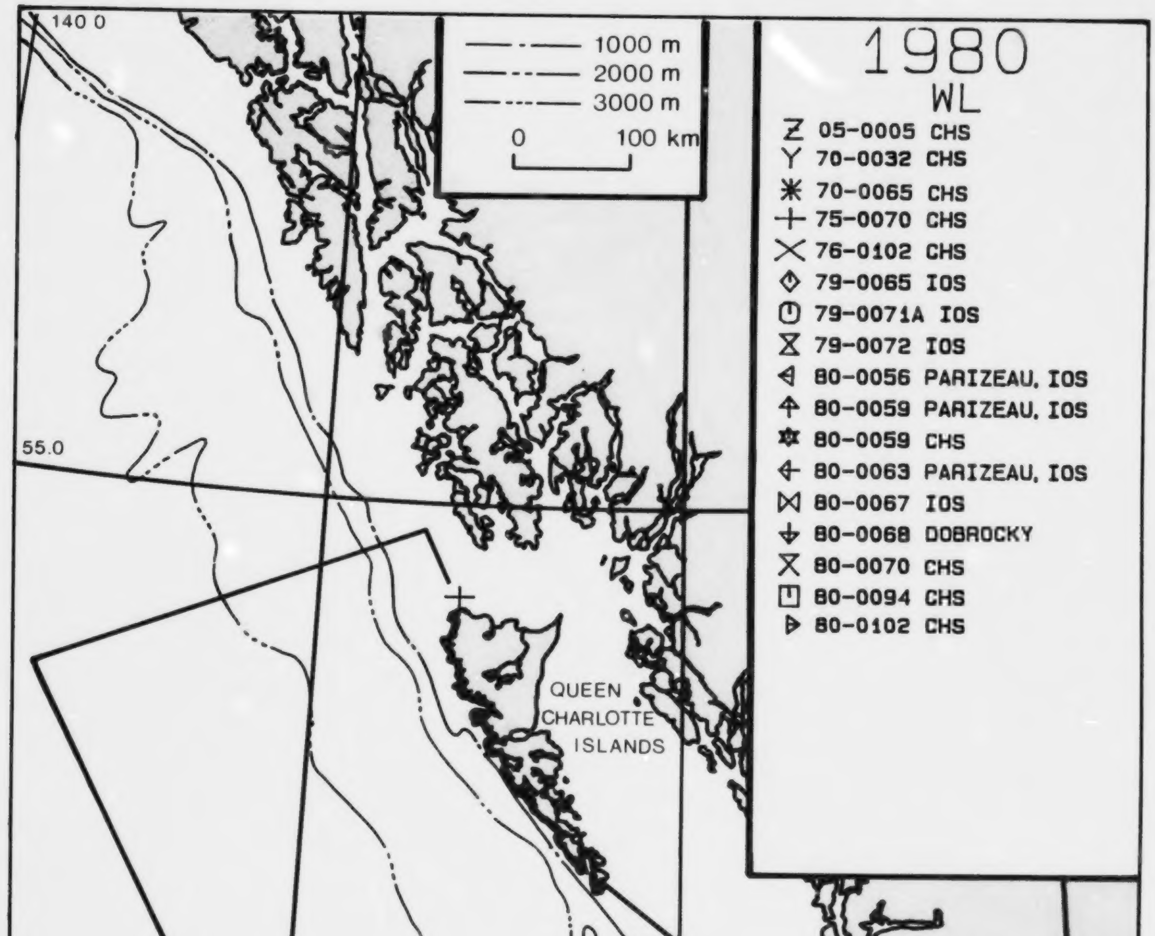

140.0
1000 m
2000 m
3000 m
0
100 km
1980
CM
△ 80-0059 PARIZEAU, IOS
☐ 80-0060 PARIZEAU, IOS
▽ 80-0063 PARIZEAU, IOS
◇ 80-0065A ENDEAVOUR, IOS
○ 80-0068 DOBROCKY, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

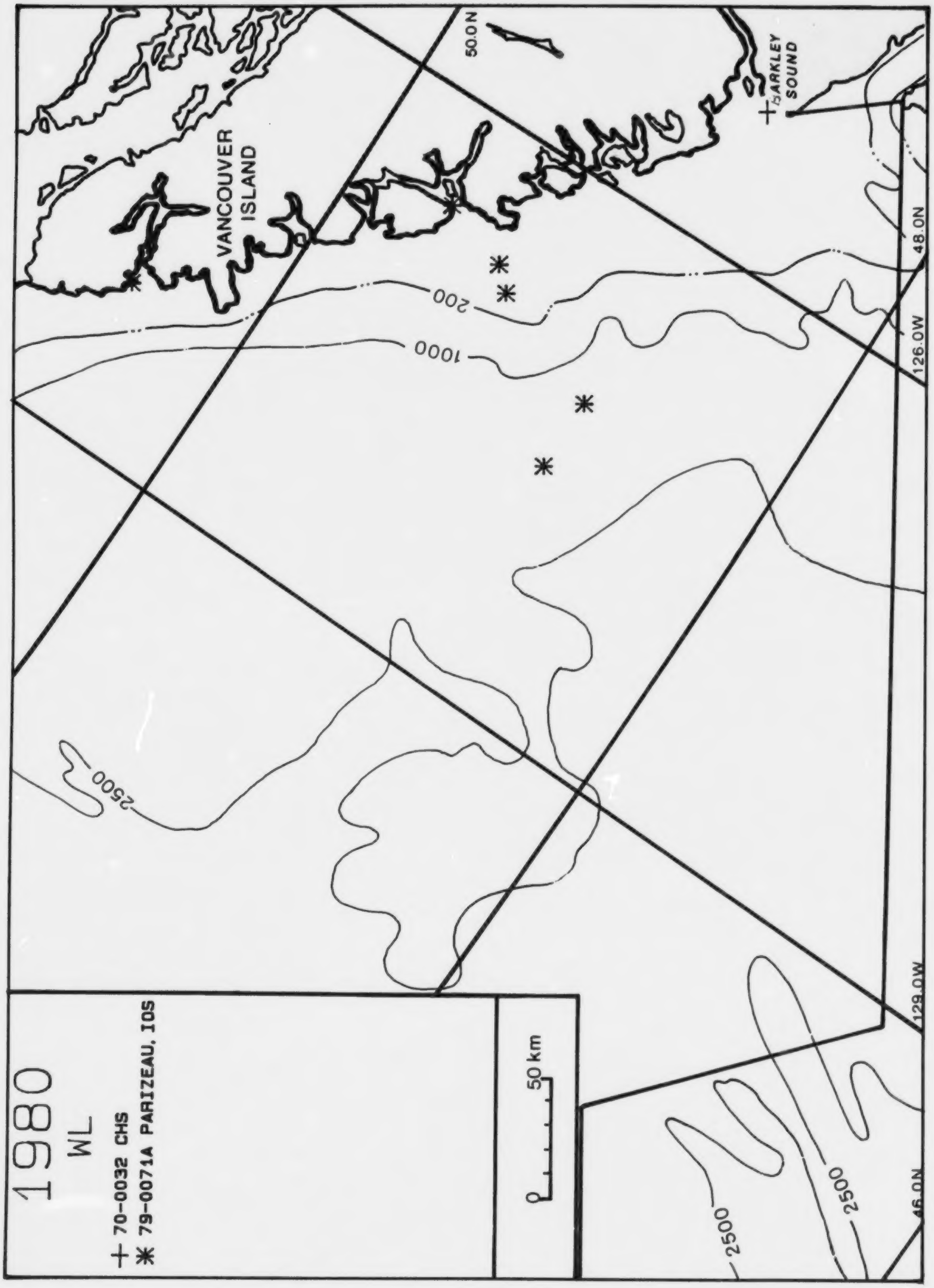

1980
CM
△ 80-0059 PARIZEAU, IOS
□ 80-0060 PARIZEAU, IOS
▽ 80-0063 PARIZEAU, IOS
◇ 80-0065A ENDEAVOUR, IOS
○ 80-0068 DOBROCKY, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

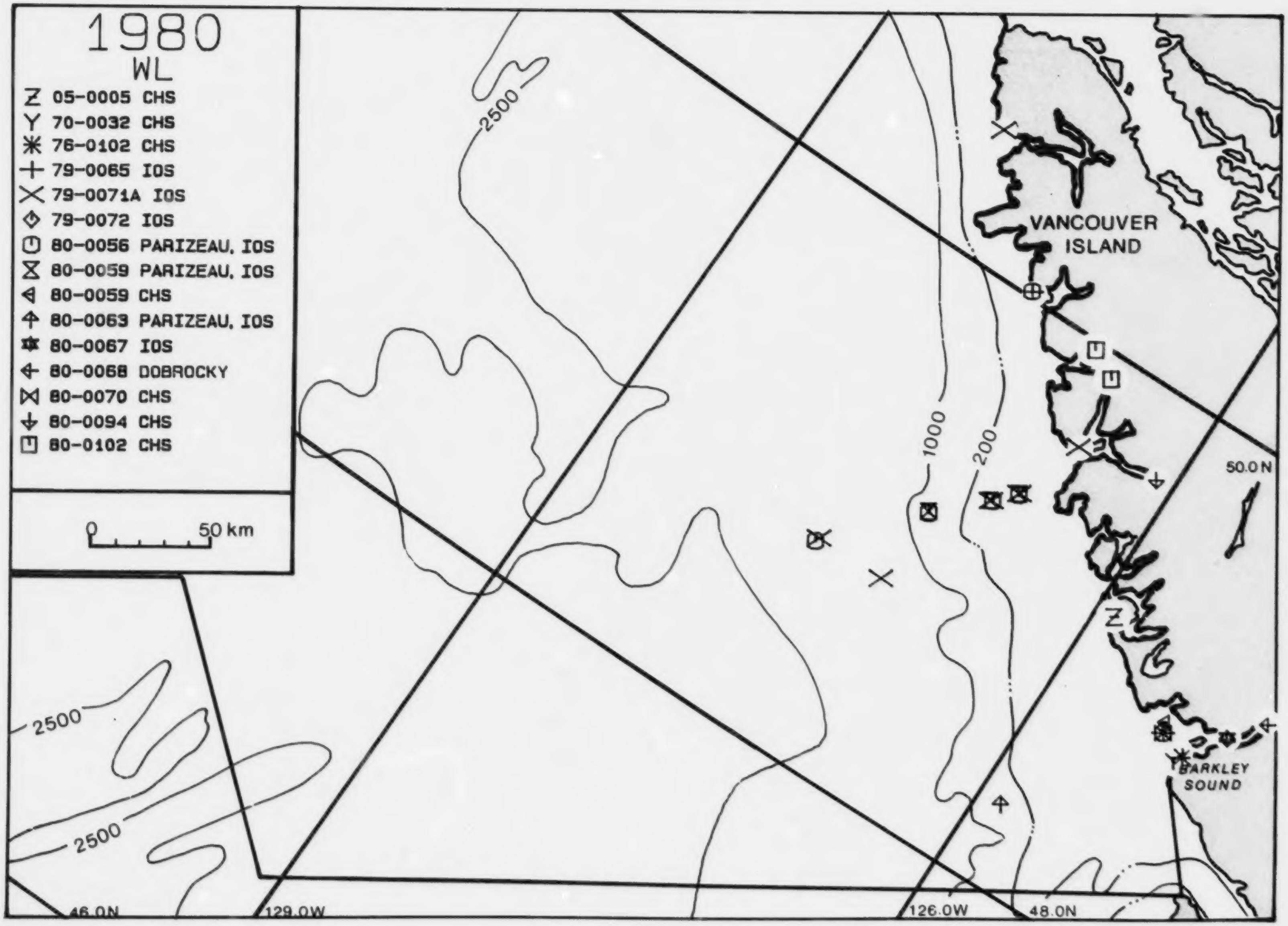

1980
CM
79-0071A PARIZEAU, IOS
79-0073 PARIZEAU, IOS
80-0057 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

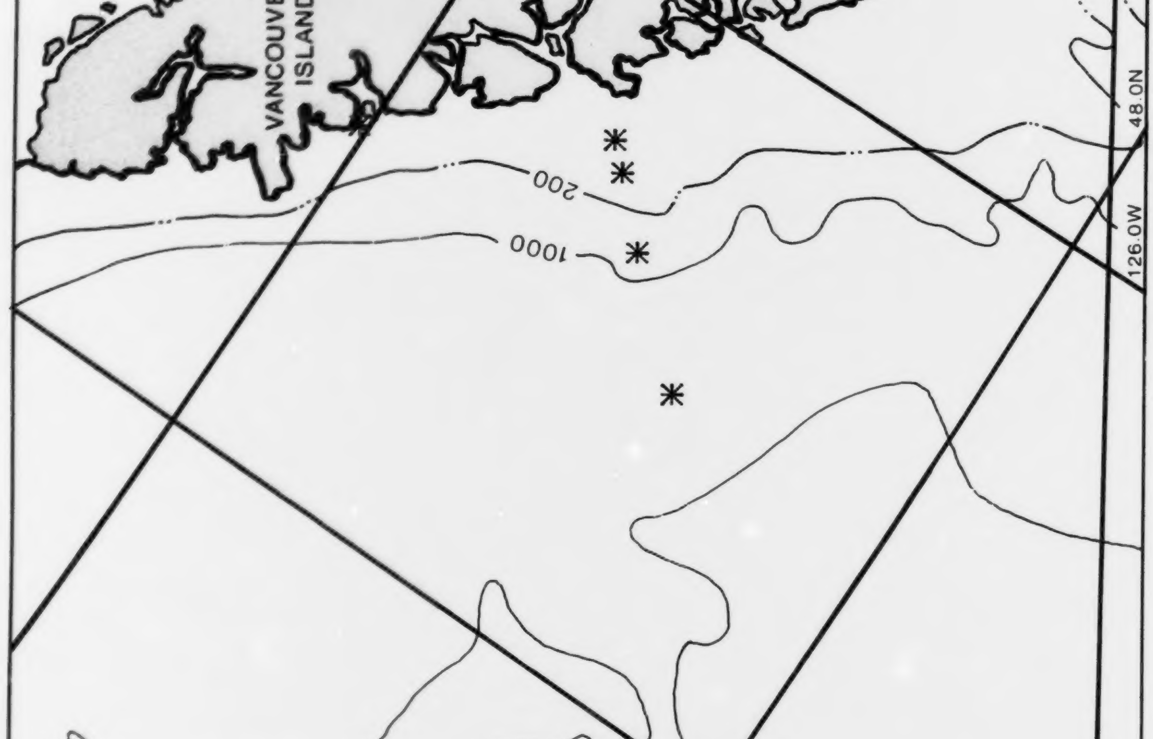

1980
CM
△ 79-0068 VECTOR, IOS
⊡ 79-0071C PARIZEAU, IOS
▽ 79-0072 PARIZEAU, IOS
◇ 80-0056 PARIZEAU, IOS
⊡ 80-0058 PARIZEAU, IOS
⊠ 80-0064 VECTOR, IOS
◁ 80-0067 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

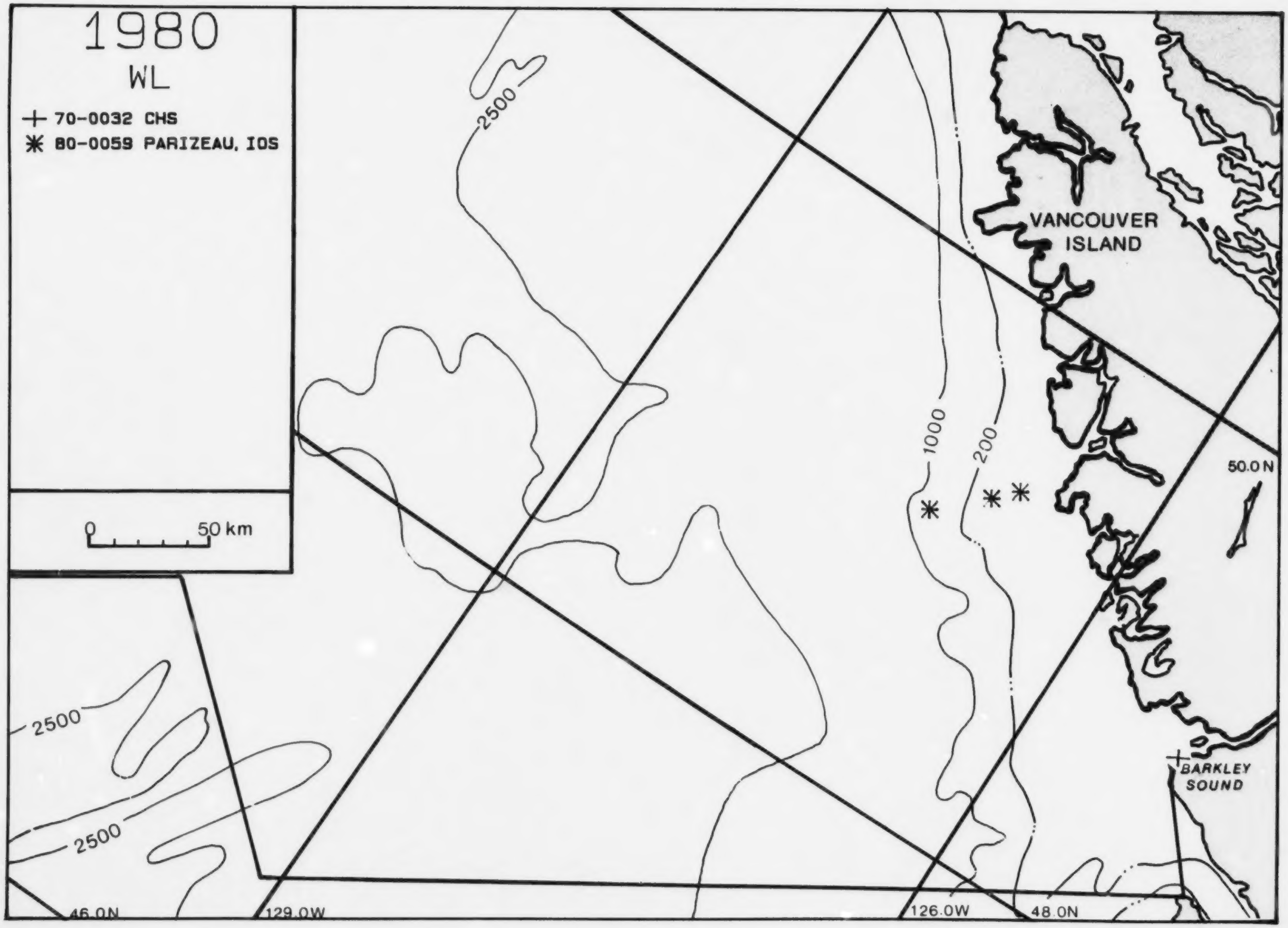

1980
CM
79-0068 VECTOR, IOS
79-0071C PARIZEAU, IOS
79-0072 PARIZEAU, IOS
79-0073 PARIZEAU, IOS
80-0057 PARIZEAU, IOS
80-0058 PARIZEAU, IOS
80-0060 PARIZEAU, IOS
80-0064 VECTOR, IOS
80-0065 ENDEAVOUR, IOS
80-0067 VECTOR, IOS
80-0068 DOBROCKY
49° 20'
PORT ALBERNI
79-0071C
79-0072
79-0073
80-0057
80-0058
80-0065
80-0067
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
79-0068
79-0071C
80-0057
80-0060
0
5
10km
DEPTH
50 m
100 m
BARKLEY SOUND
CAPE BEALE
125°20'
125°

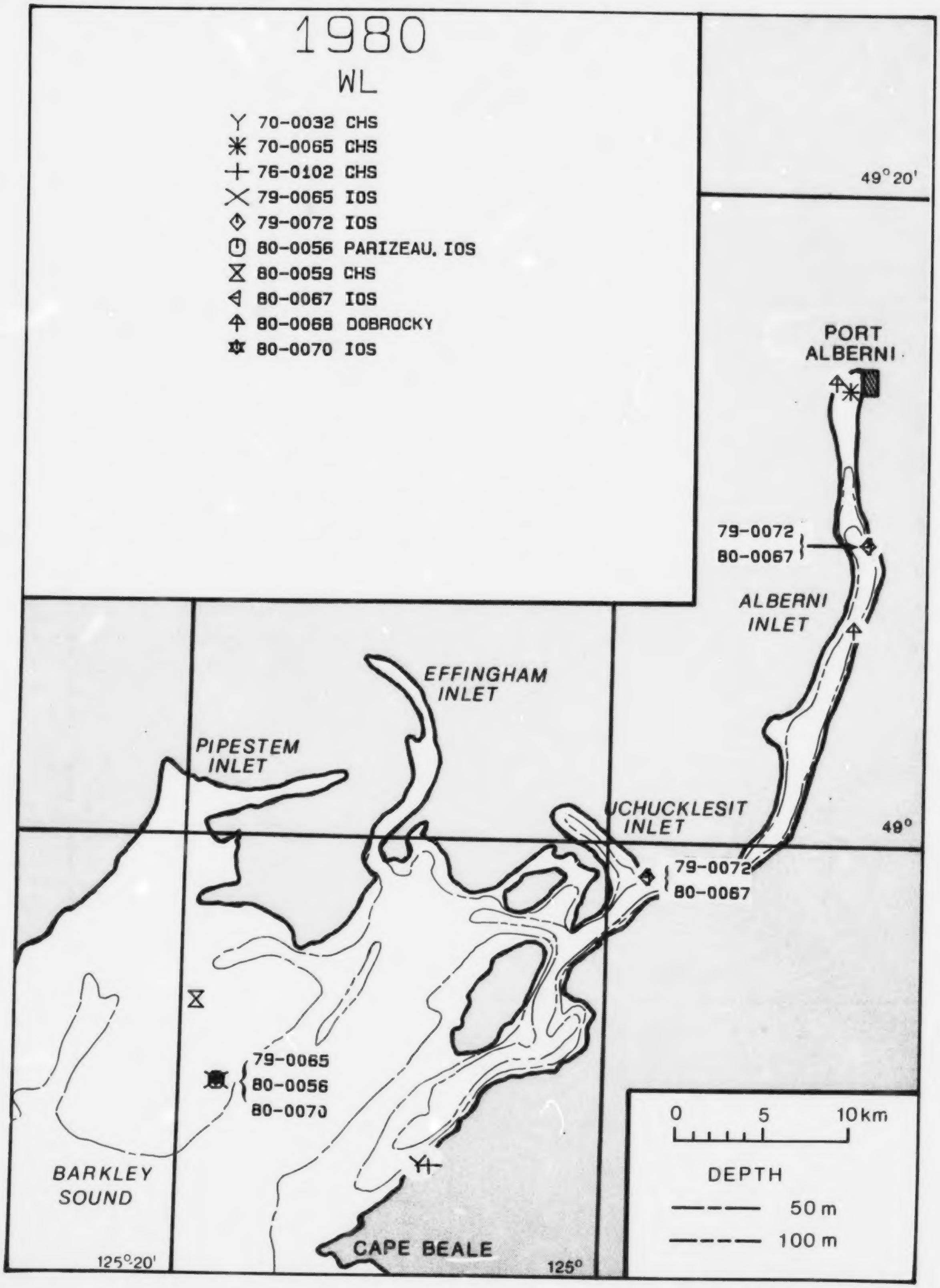

140.0
1000 m
2000 m
3000 m
0
100 km
1980
WL
Z 05-0005 CHS
Y 70-0032 CHS
✳ 70-0065 CHS
+ 75-0070 CHS
✕ 76-0102 CHS
79-0065 IOS
79-0071A IOS
79-0072 IOS
80-0056 PARIZEAU, IOS
80-0059 PARIZEAU, IOS
80-0059 CHS
80-0063 PARIZEAU, IOS
⋈ 80-0067 IOS
80-0068 DOBROCKY
80-0070 CHS
80-0094 CHS
80-0102 CHS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

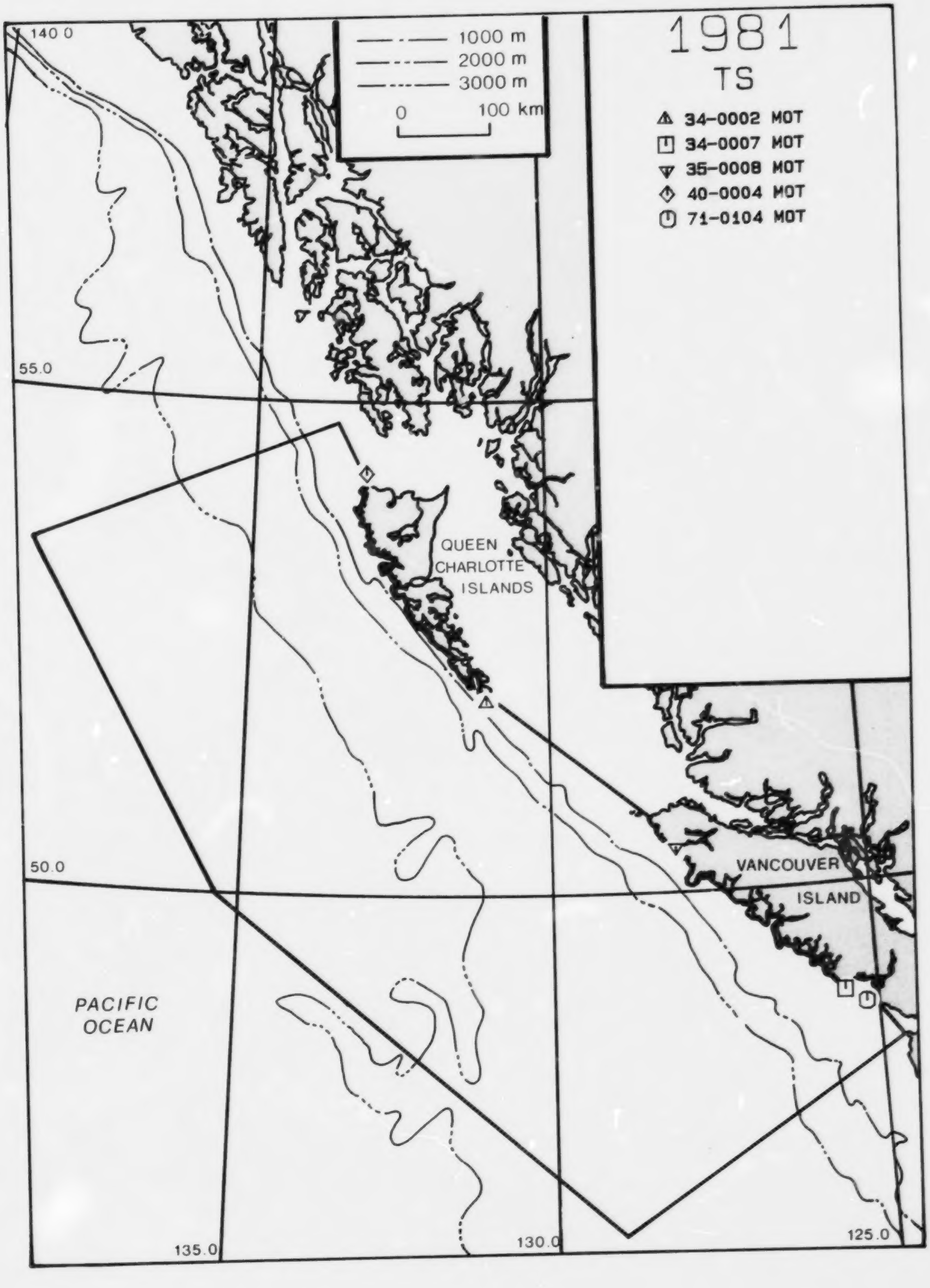

1980
WL
+ 70-0032 CHS
✳ 79-0071A PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

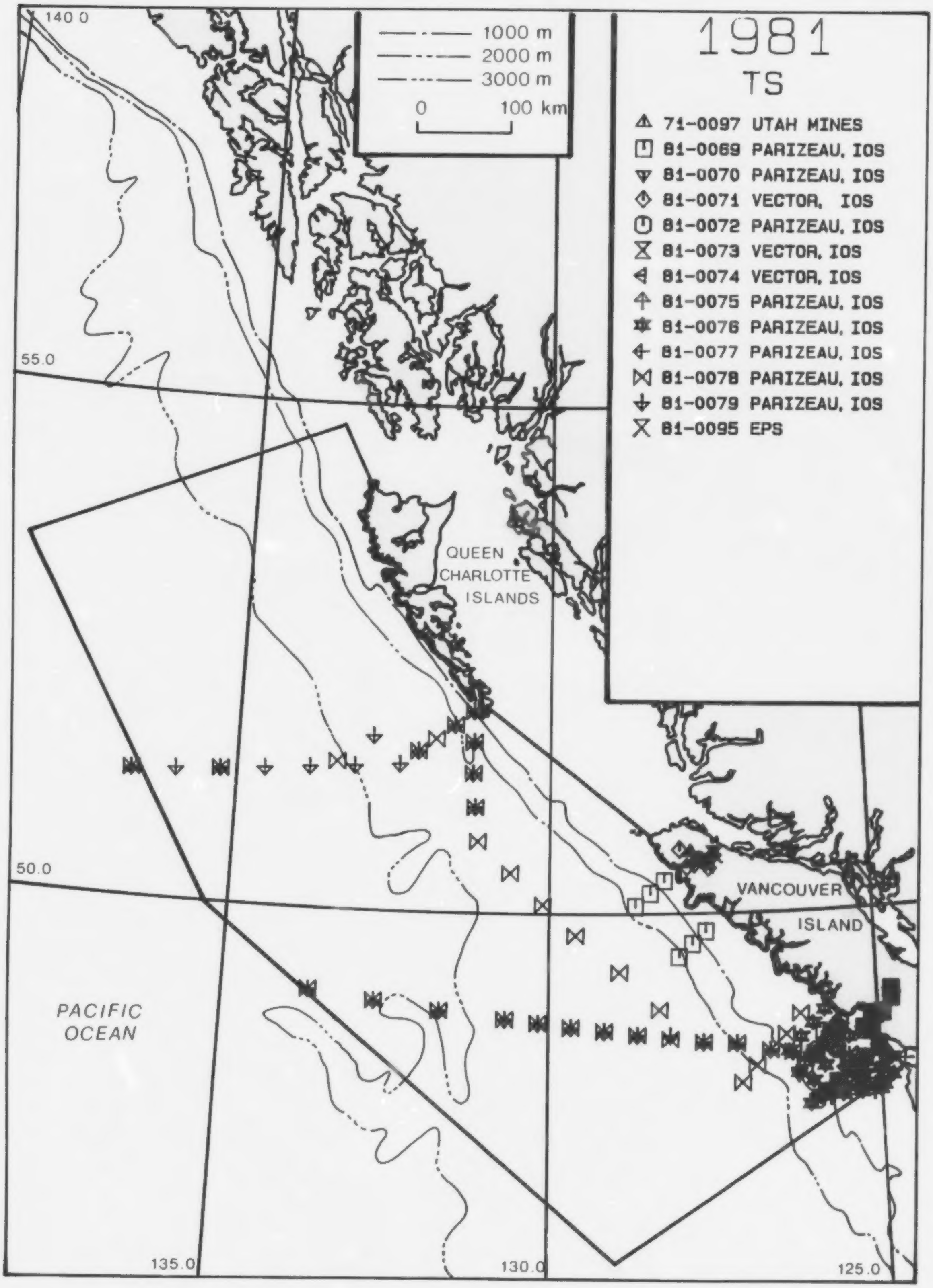

1980
WL
Z 05-0005 CHS
Y 70-0032 CHS
✳ 76-0102 CHS
+ 79-0065 IOS
X 79-0071A IOS
◈ 79-0072 IOS
80-0056 PARIZEAU, IOS
⧗ 80-0059 PARIZEAU, IOS
80-0059 CHS
80-0063 PARIZEAU, IOS
✡ 80-0067 IOS
80-0068 DOBROCKY
⋈ 80-0070 CHS
80-0094 CHS
80-0102 CHS
0
50 km
2500
1000
200
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W

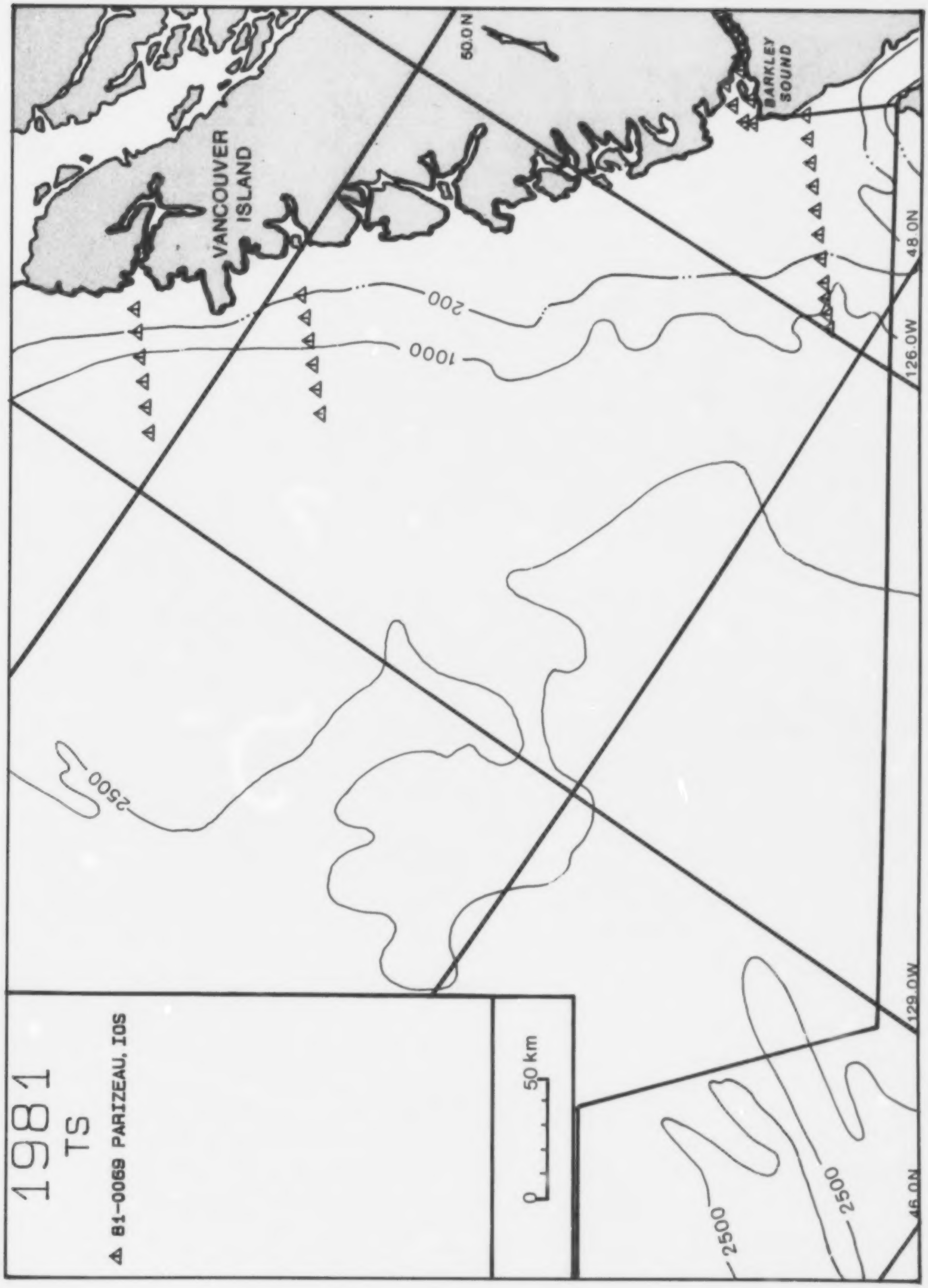

1980
WL
+ 70-0032 CHS
✳ 80-0056 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

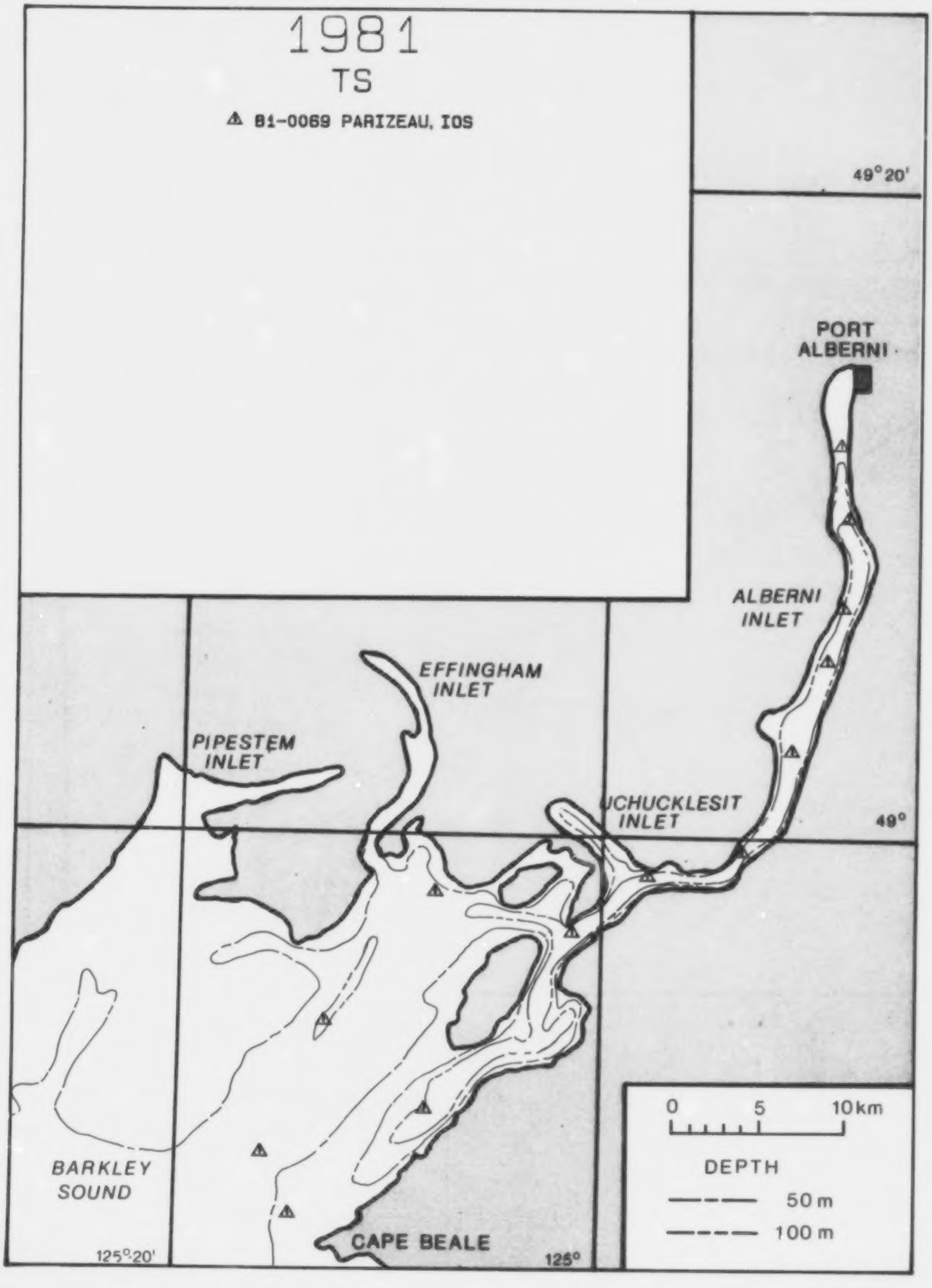

1980
WL
+ 70-0032 CHS
✱ 80-0059 PARIZEAU, IOS
0
50 km
2500
VANCOUVER ISLAND
1000
200
50.0N
BARKLEY SOUND
2500
2500
46.0N
129.0W
126.0W
48.0N

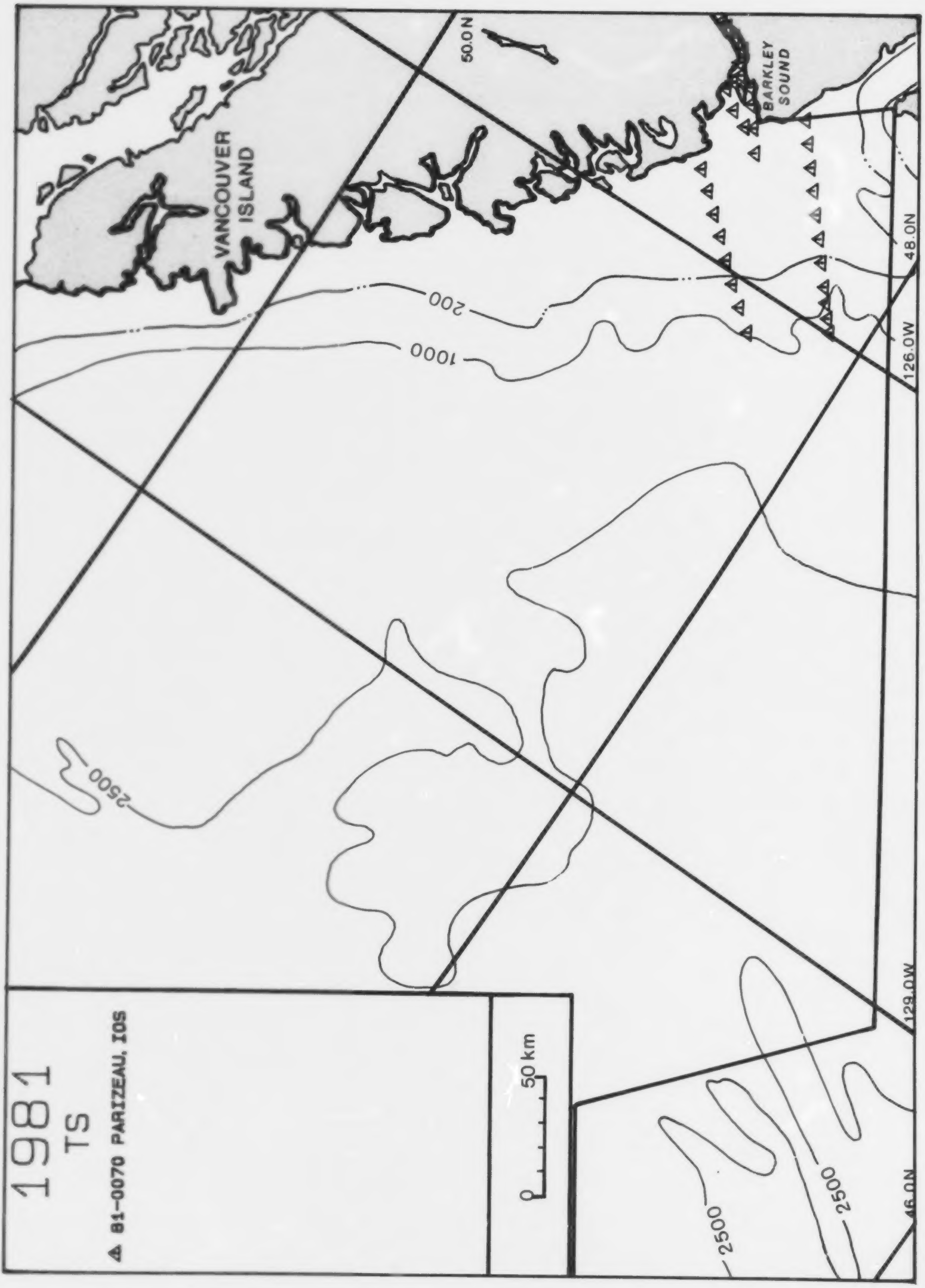

1980
WL
70-0032 CHS
70-0065 CHS
76-0102 CHS
79-0065 IOS
79-0072 IOS
80-0056 PARIZEAU, IOS
80-0059 CHS
80-0067 IOS
80-0068 DOBROCKY
80-0070 IOS
49°20'
PORT ALBERNI
79-0072
80-0067
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
79-0072
80-0067
79-0065
80-0056
80-0070
BARKLEY SOUND
CAPE BEALE
0
5
10 km
DEPTH
50 m
100 m
125°20'
125°

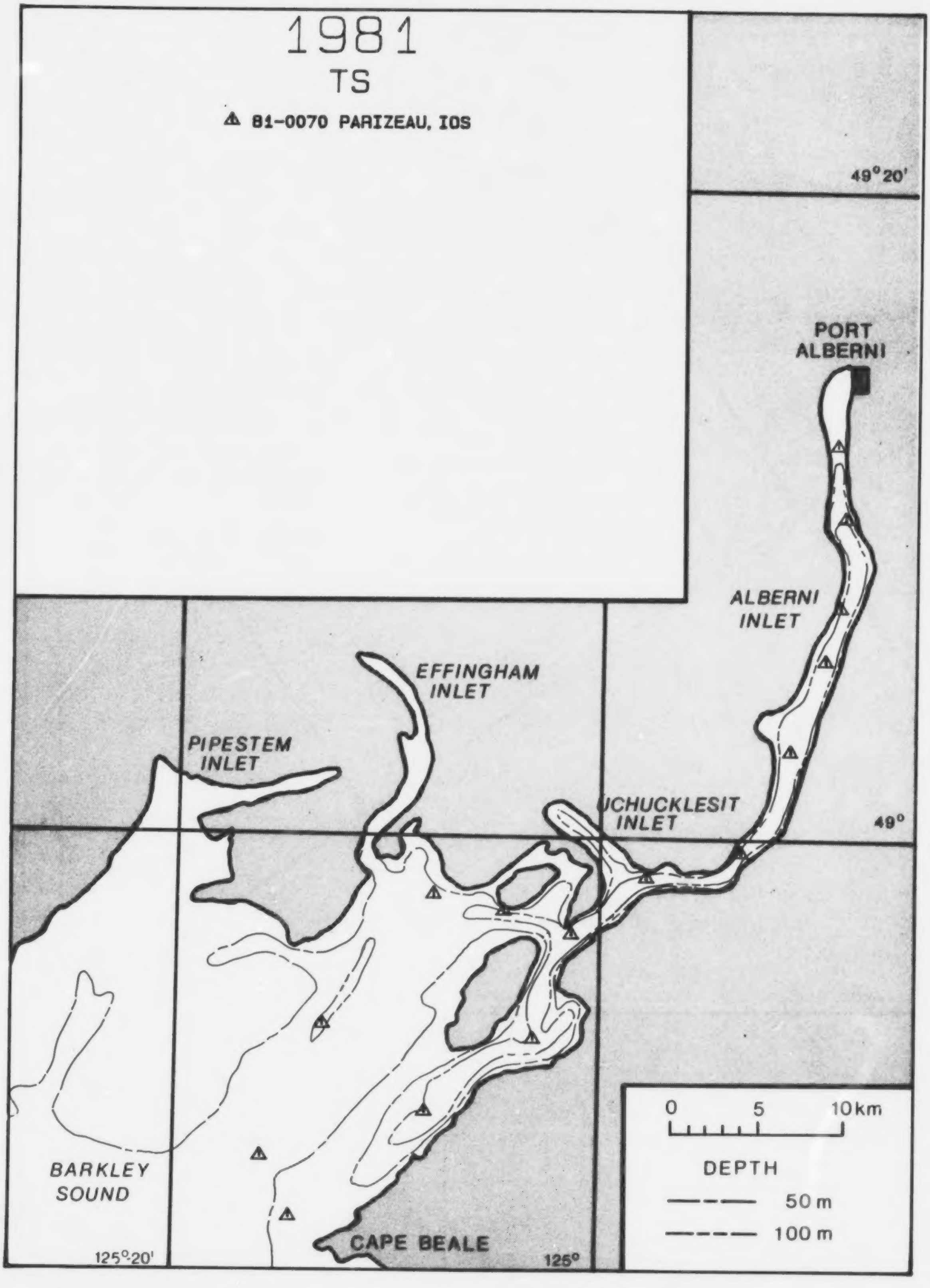

1981
TS
▲ 34-0002 MOT
☐ 34-0007 MOT
▼ 35-0008 MOT
◆ 40-0004 MOT
○ 71-0104 MOT
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

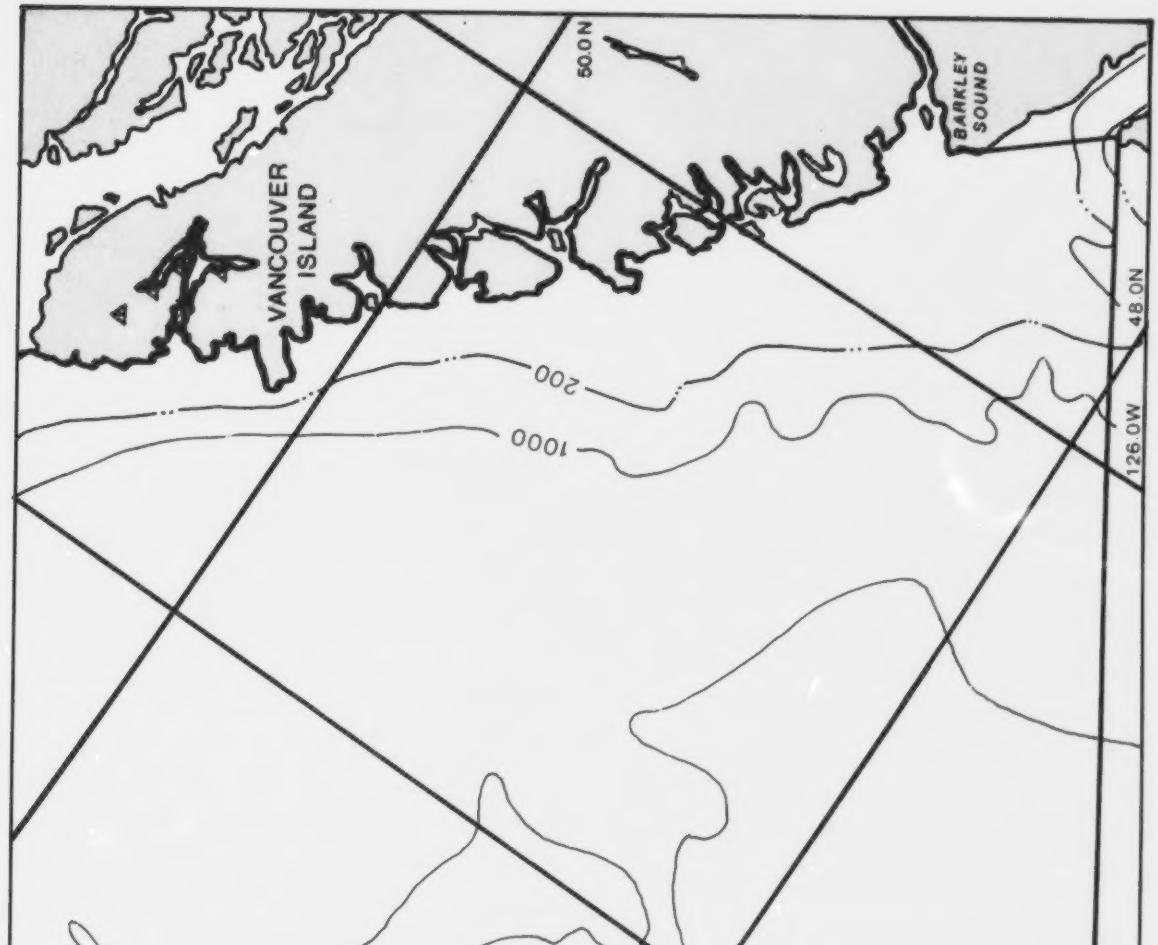

140.0
1000 m
2000 m
3000 m
0
100 km
1981
TS
71-0097 UTAH MINES
81-0069 PARIZEAU, IOS
81-0070 PARIZEAU, IOS
81-0071 VECTOR, IOS
81-0072 PARIZEAU, IOS
81-0073 VECTOR, IOS
81-0074 VECTOR, IOS
81-0075 PARIZEAU, IOS
81-0076 PARIZEAU, IOS
81-0077 PARIZEAU, IOS
81-0078 PARIZEAU, IOS
81-0079 PARIZEAU, IOS
81-0095 EPS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

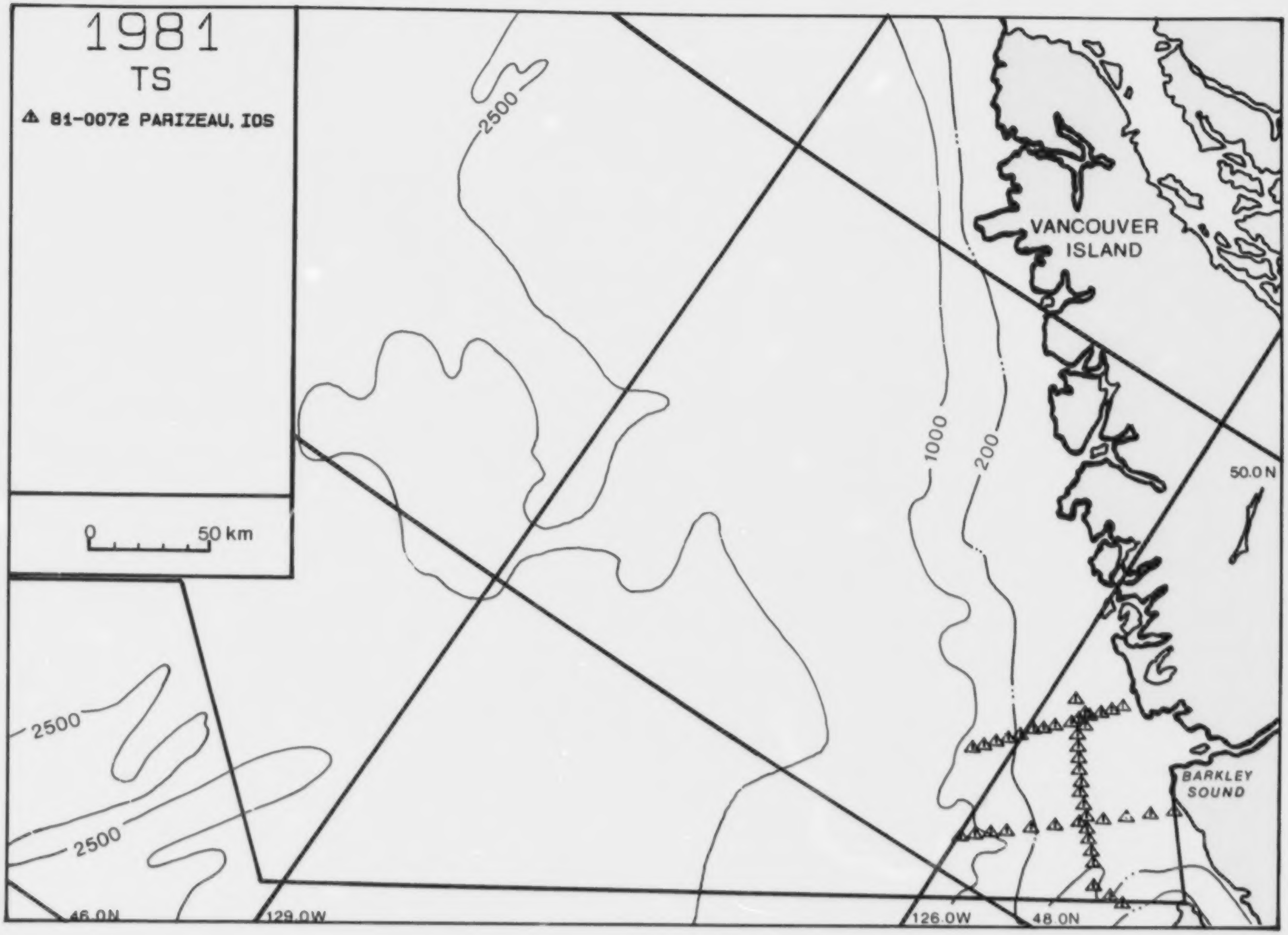

1981
TS
Δ 81-0069 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

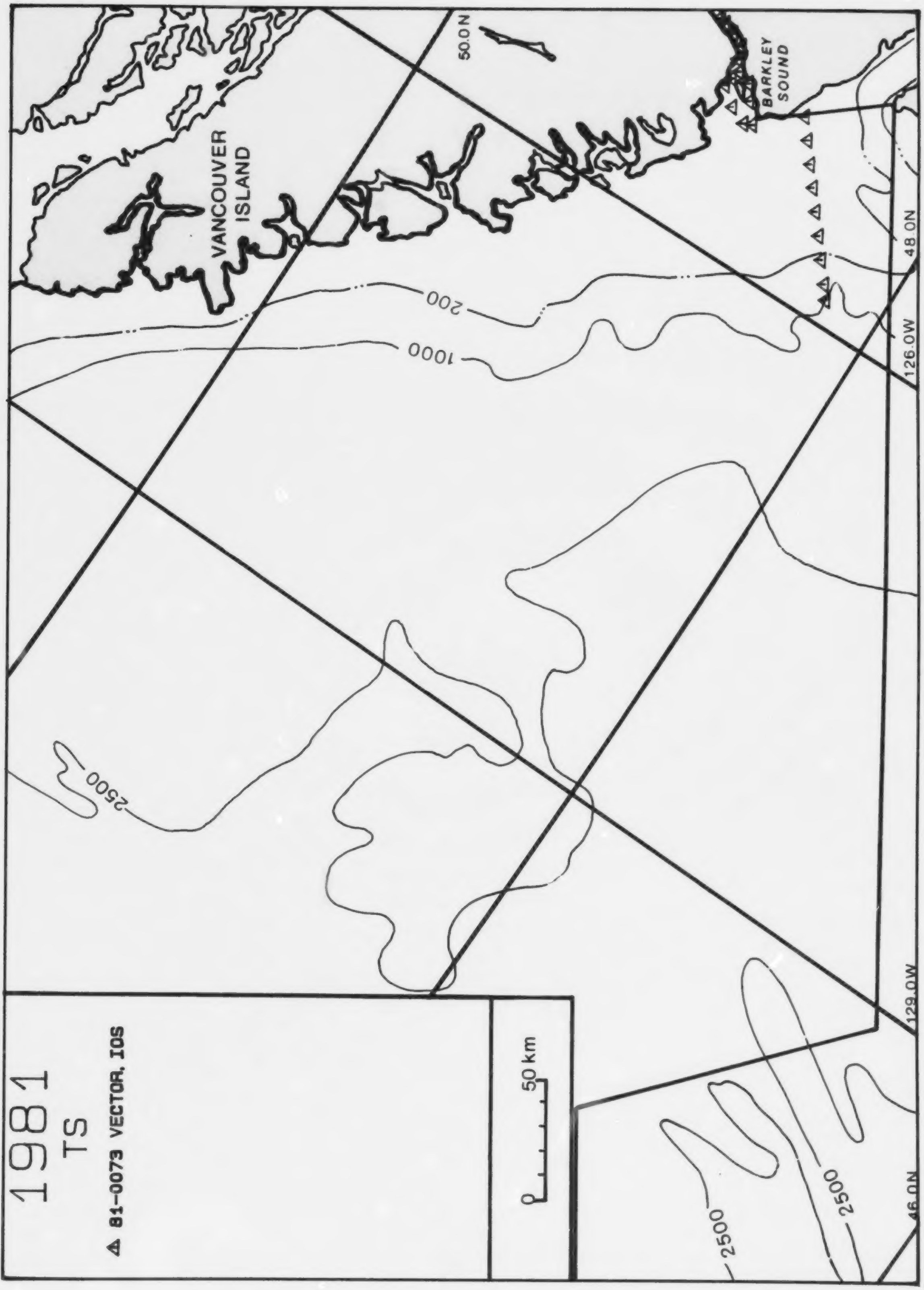

1981
TS
⚠ 81-0069 PARIZEAU, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

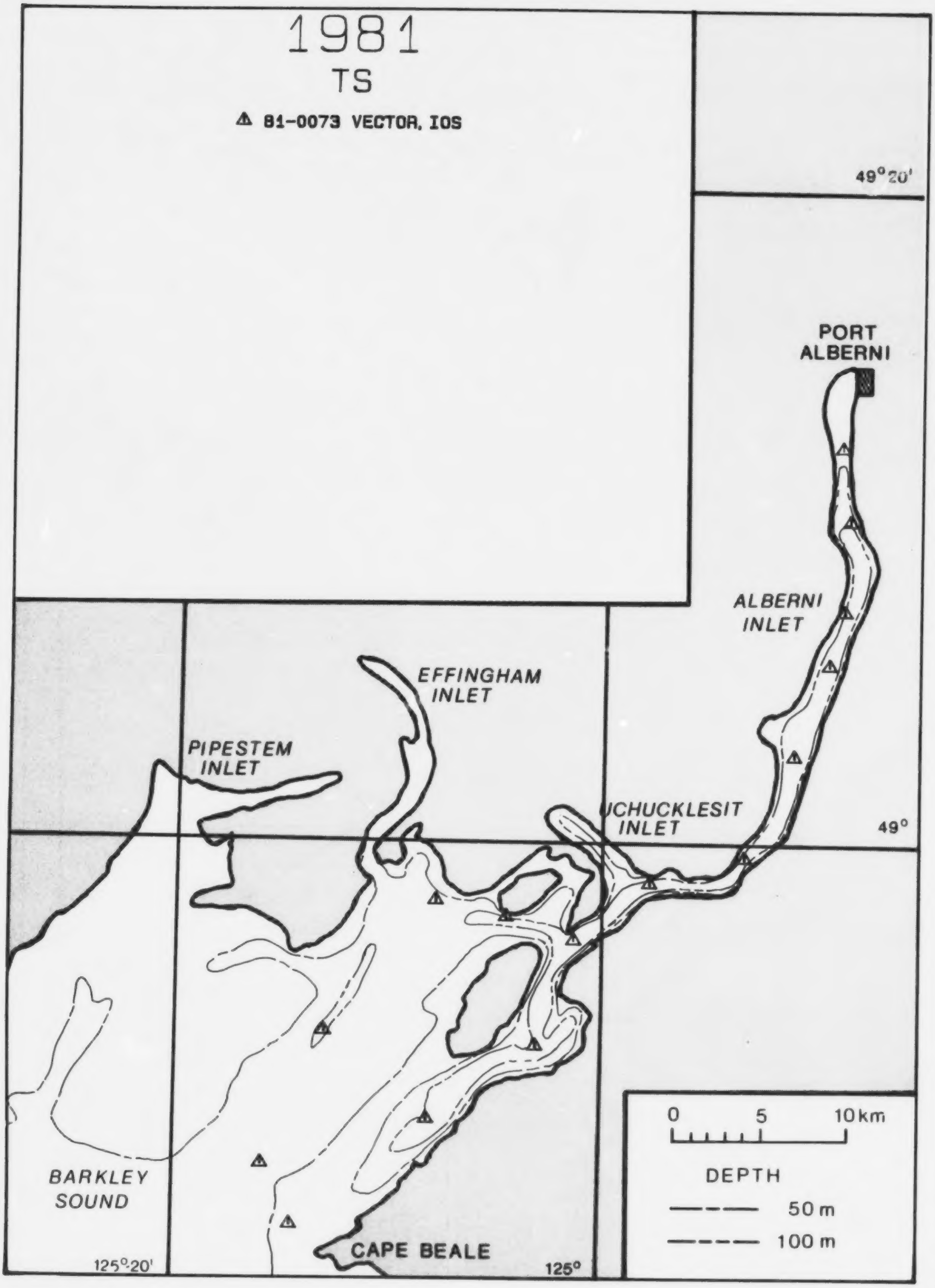

1981
TS
▲ 81-0070 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

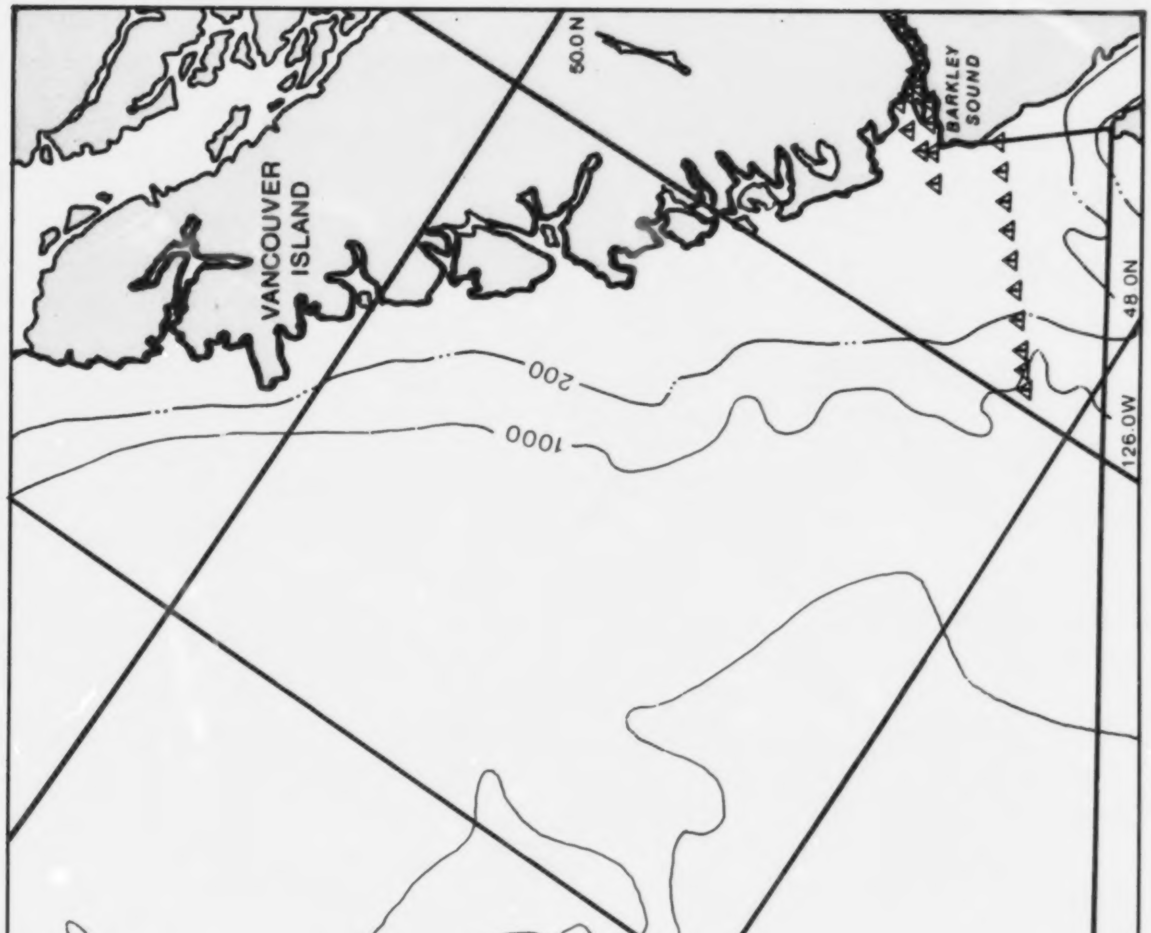

1981
TS
⚠ 81-0070 PARIZEAU, IOS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

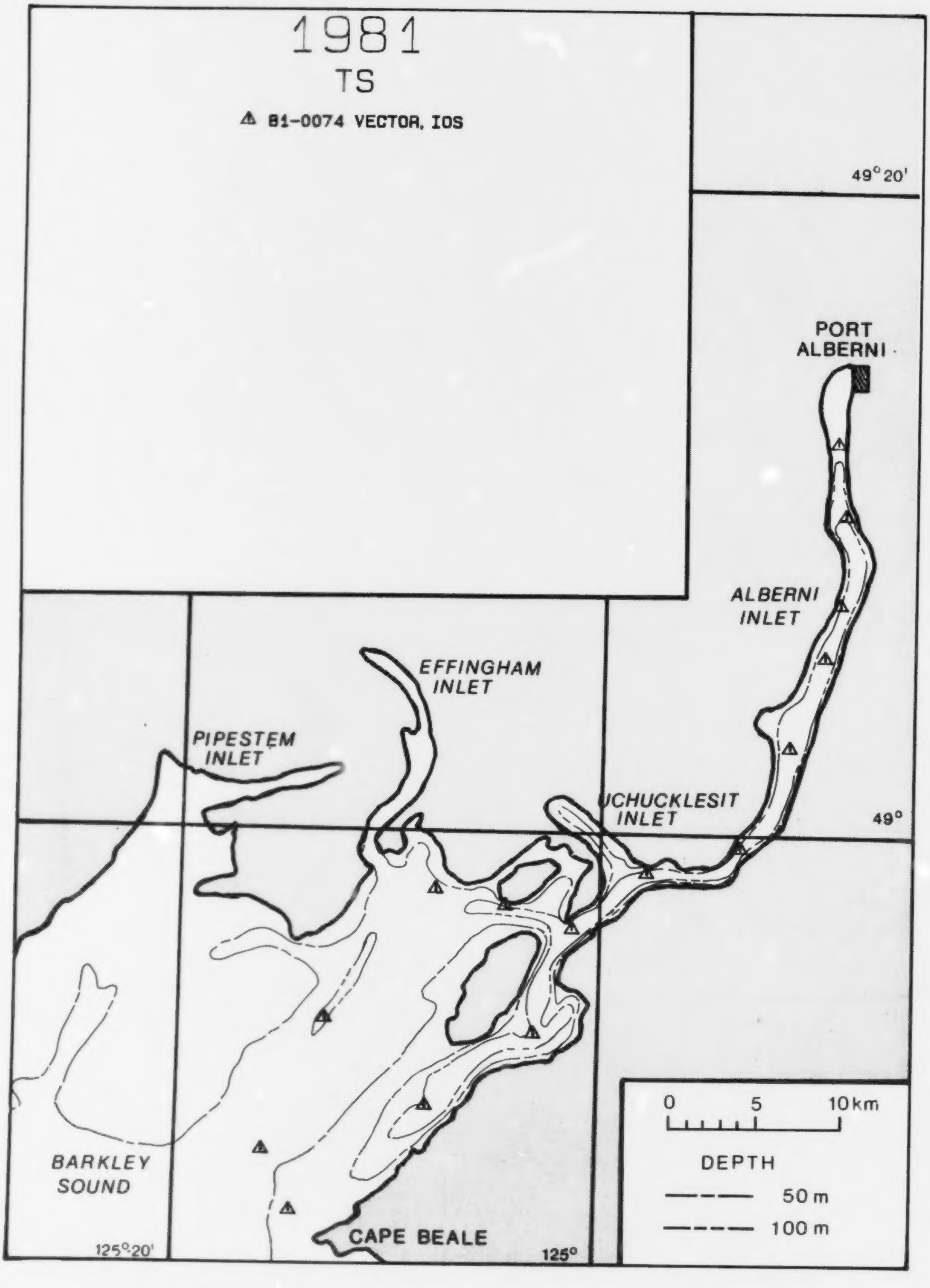

1981
TS
△ 81-0071 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
126.0W
129.0W
46.0N
200
1000
2500
2500
2500
2500

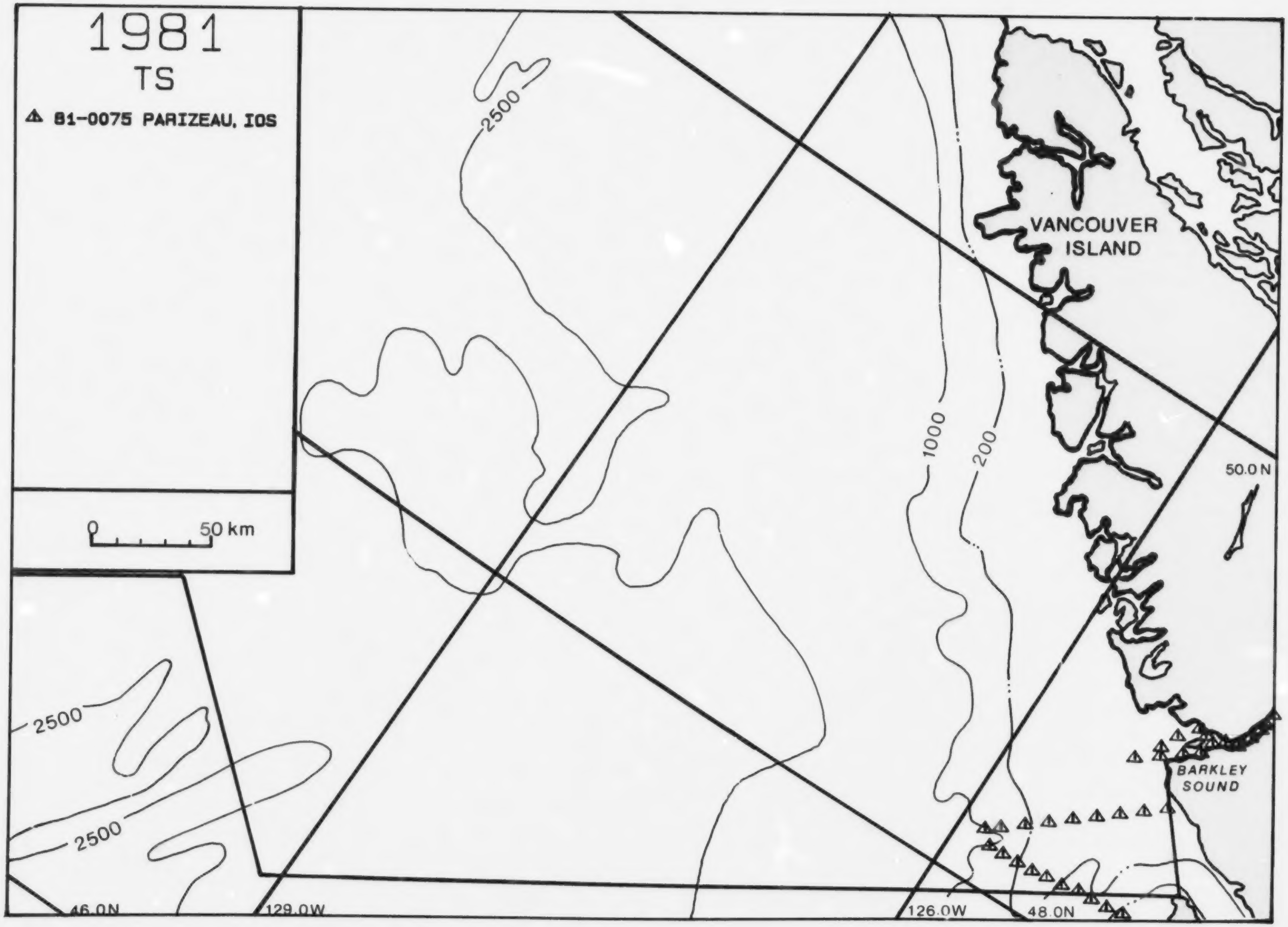

1981
TS
⚠ 81-0072 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

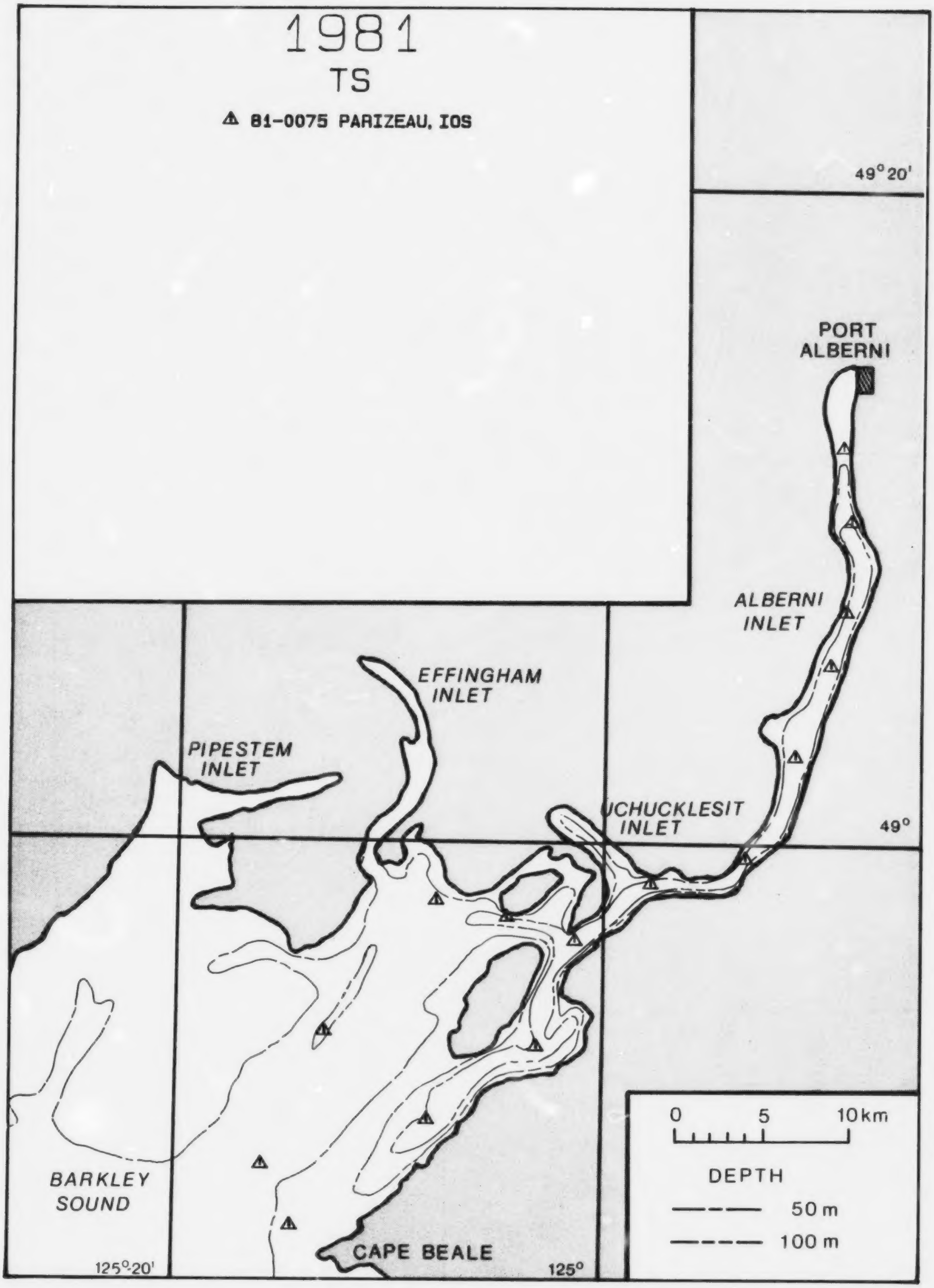

1981
TS
81-0073 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

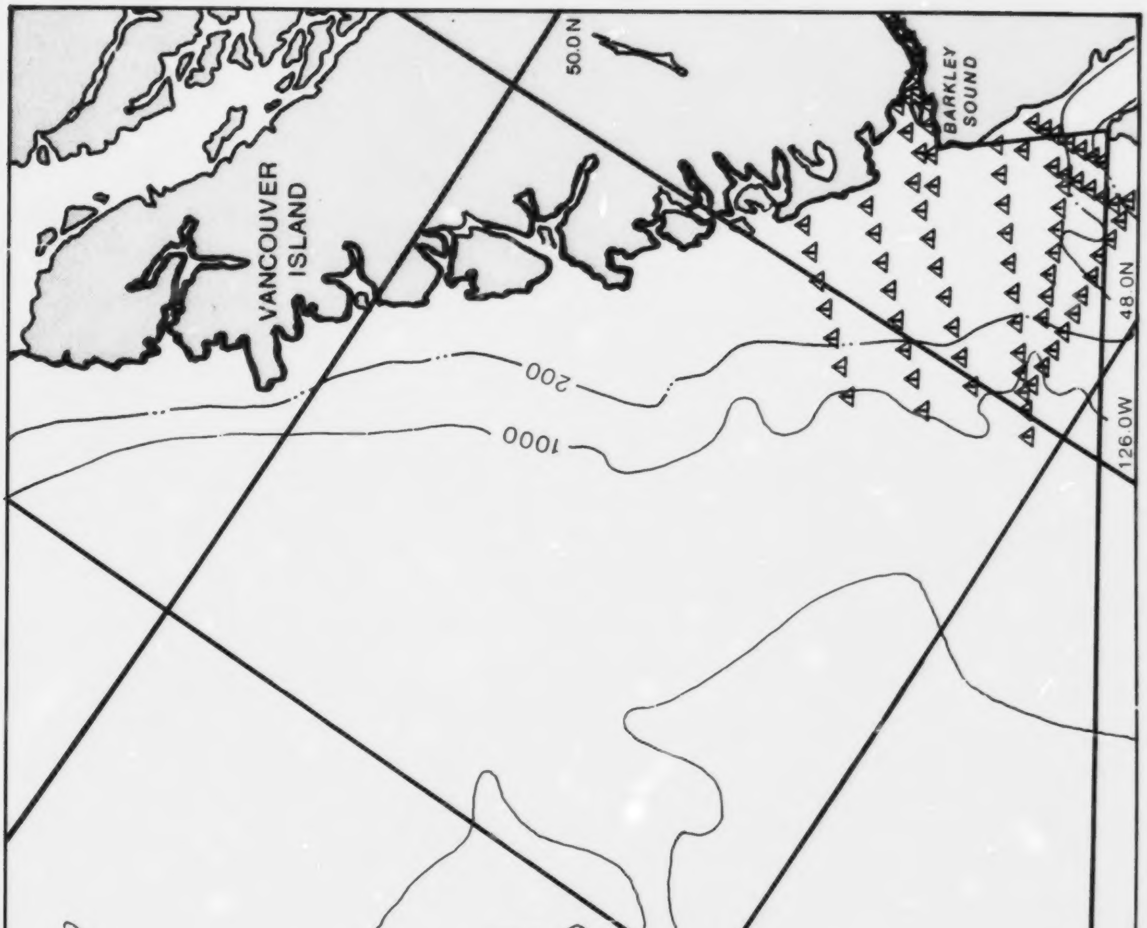

1981
TS
⚠ 81-0073 VECTOR, IOS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

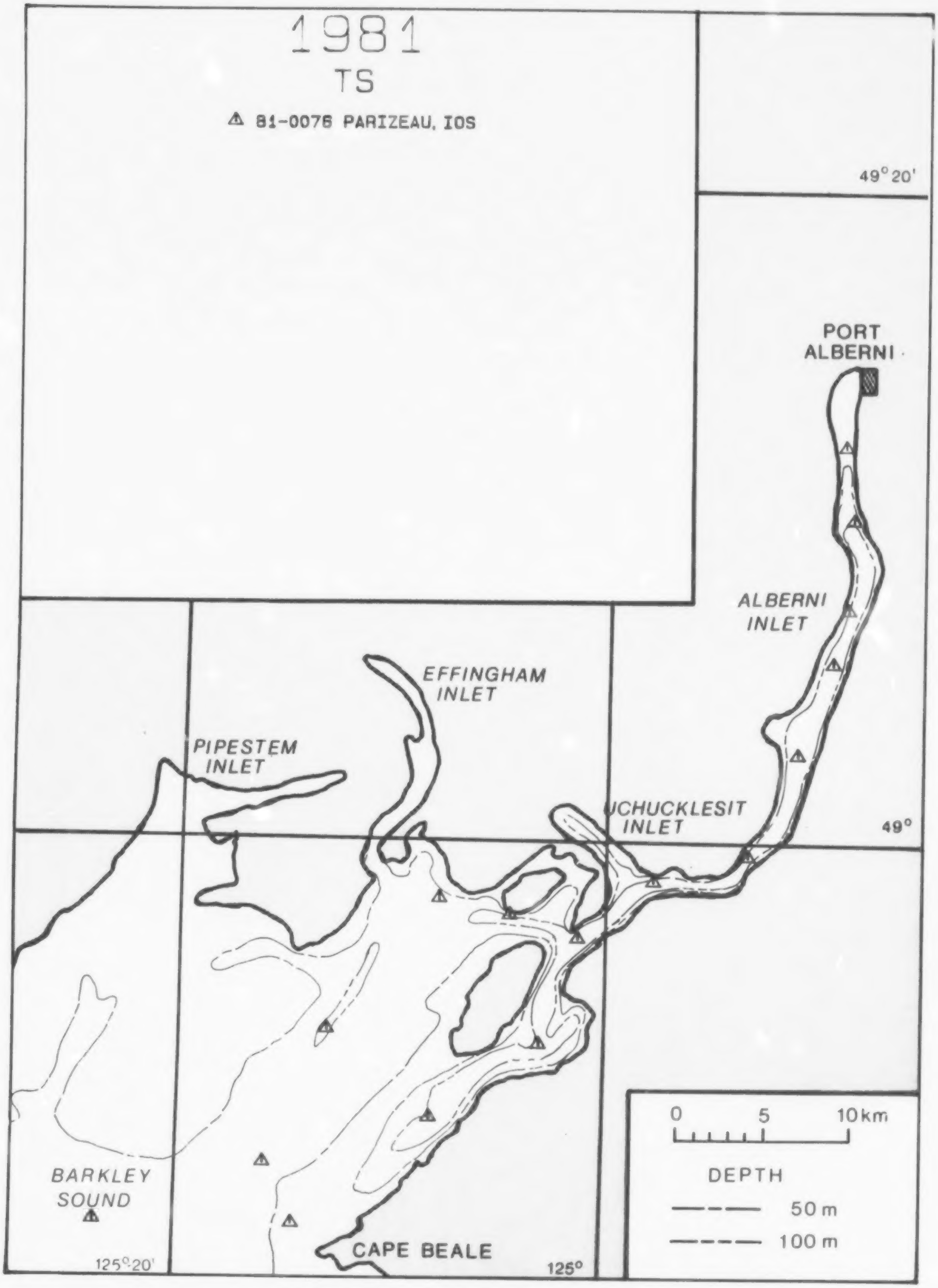

1981
TS
△ 81-0074 VECTOR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

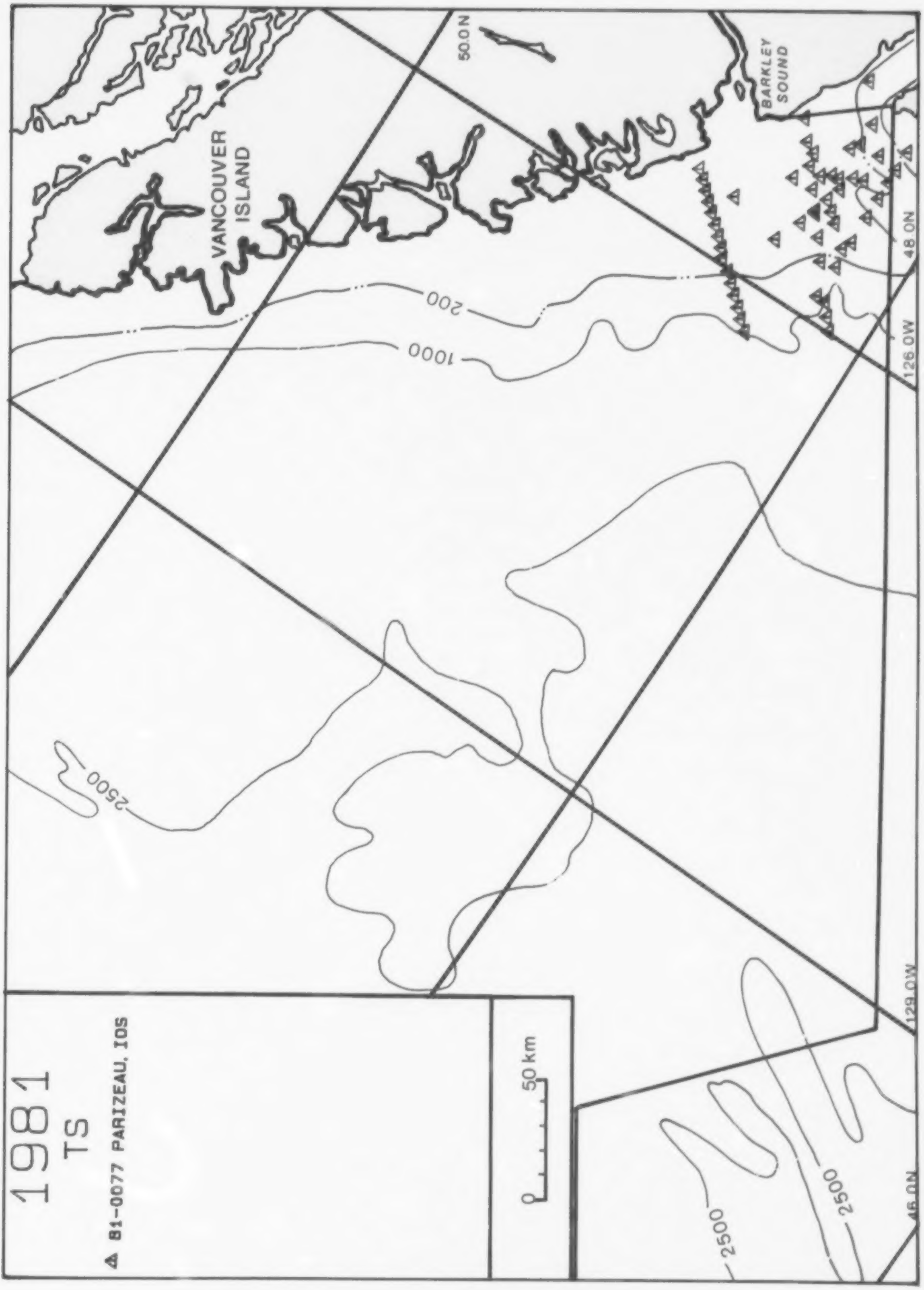

1981
TS
⚠ 81-0074 VECTOR, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

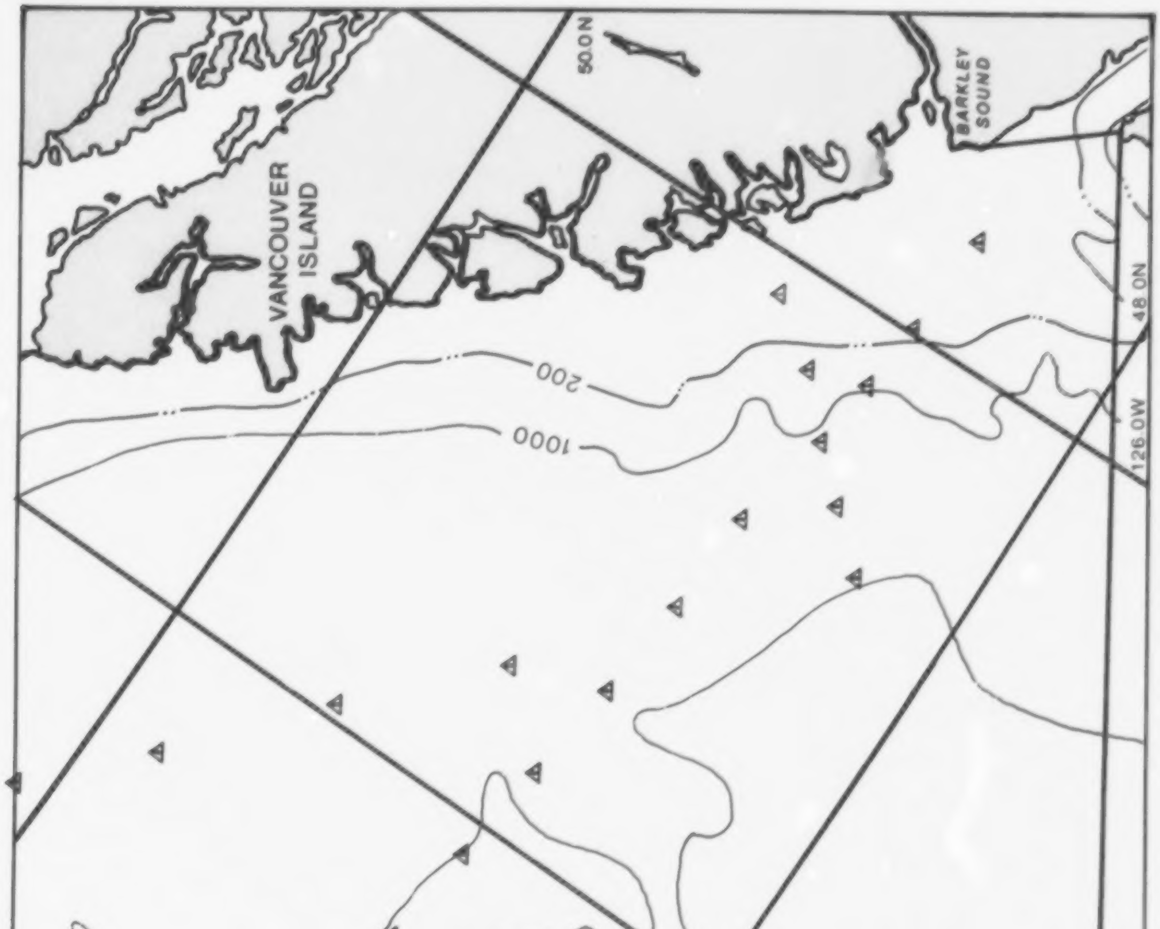

1981
TS
Δ 81-0075 PARIZEAU, IOS
0
50 km
VANCOUVER
ISLAND
BARKLEY
SOUND
50.0 N
48.0 N
46.0 N
126.0 W
129.0 W
200
1000
2500
2500
2500

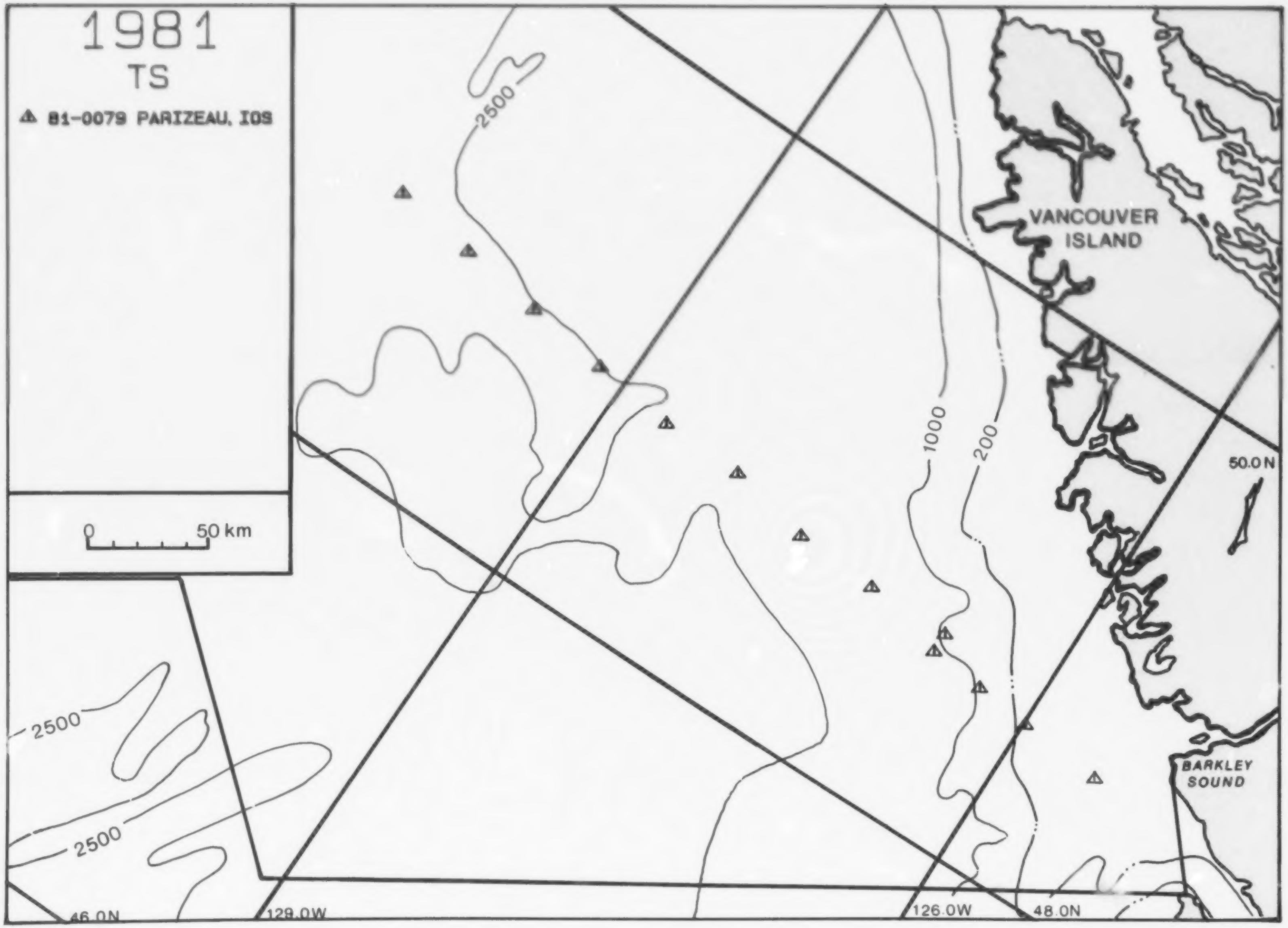

1981
TS
⚠ 81-0075 PARIZEAU, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0 5 10 km
DEPTH
50 m
100 m

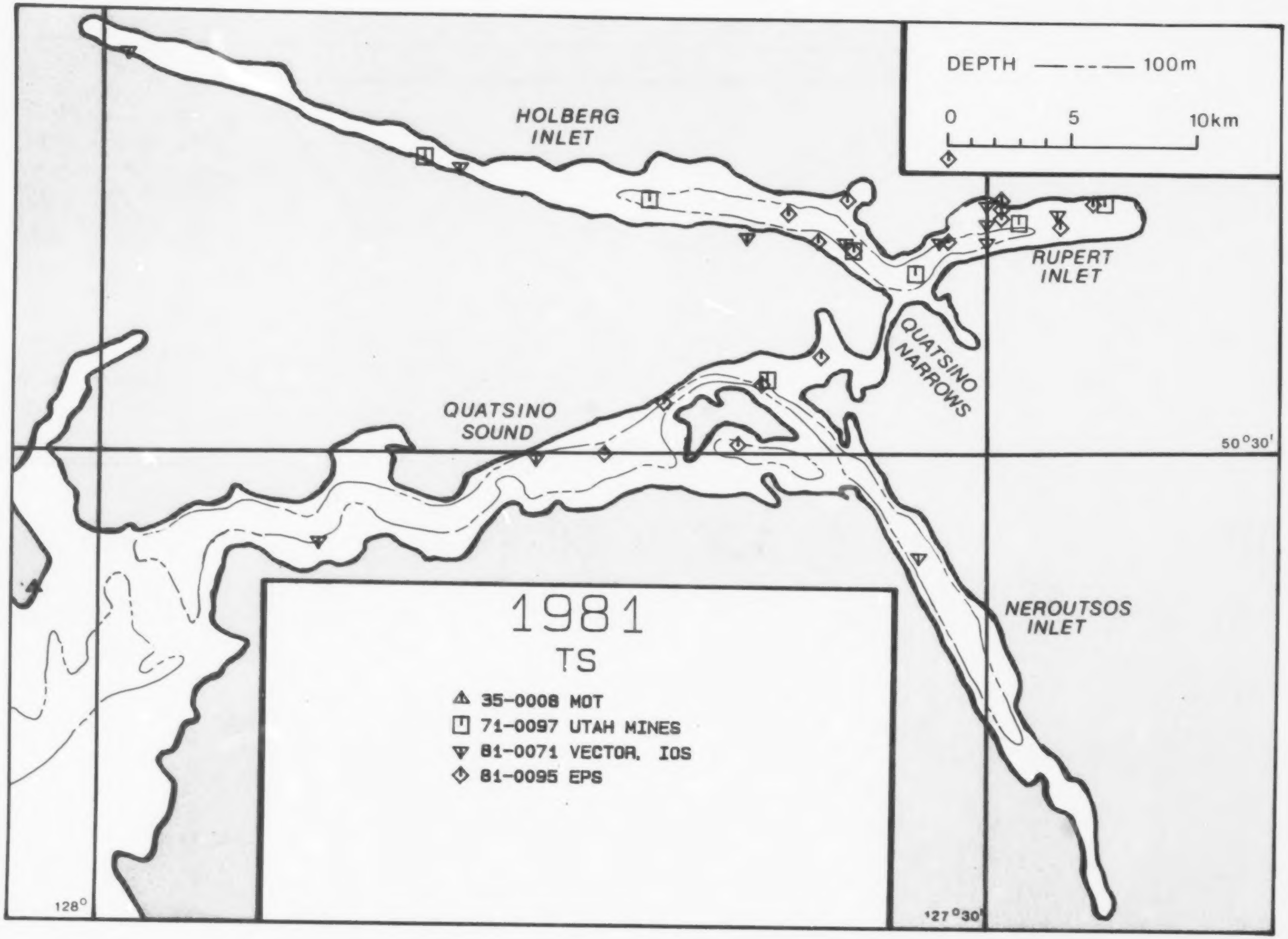

1981
TS
∆ 81-0076 PARIZEAU. IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

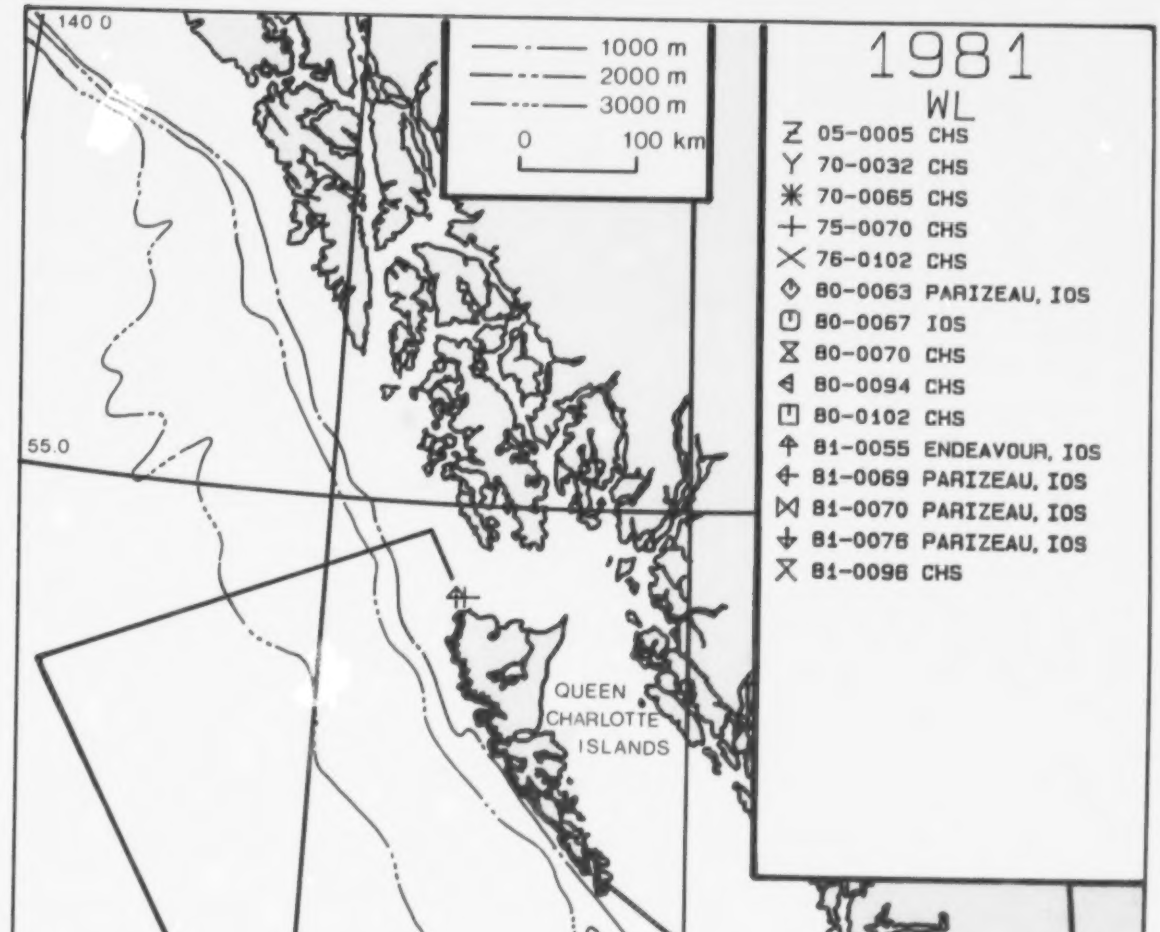

1981
TS
⚠ 81-0076 PARIZEAU, IOS
49° 20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

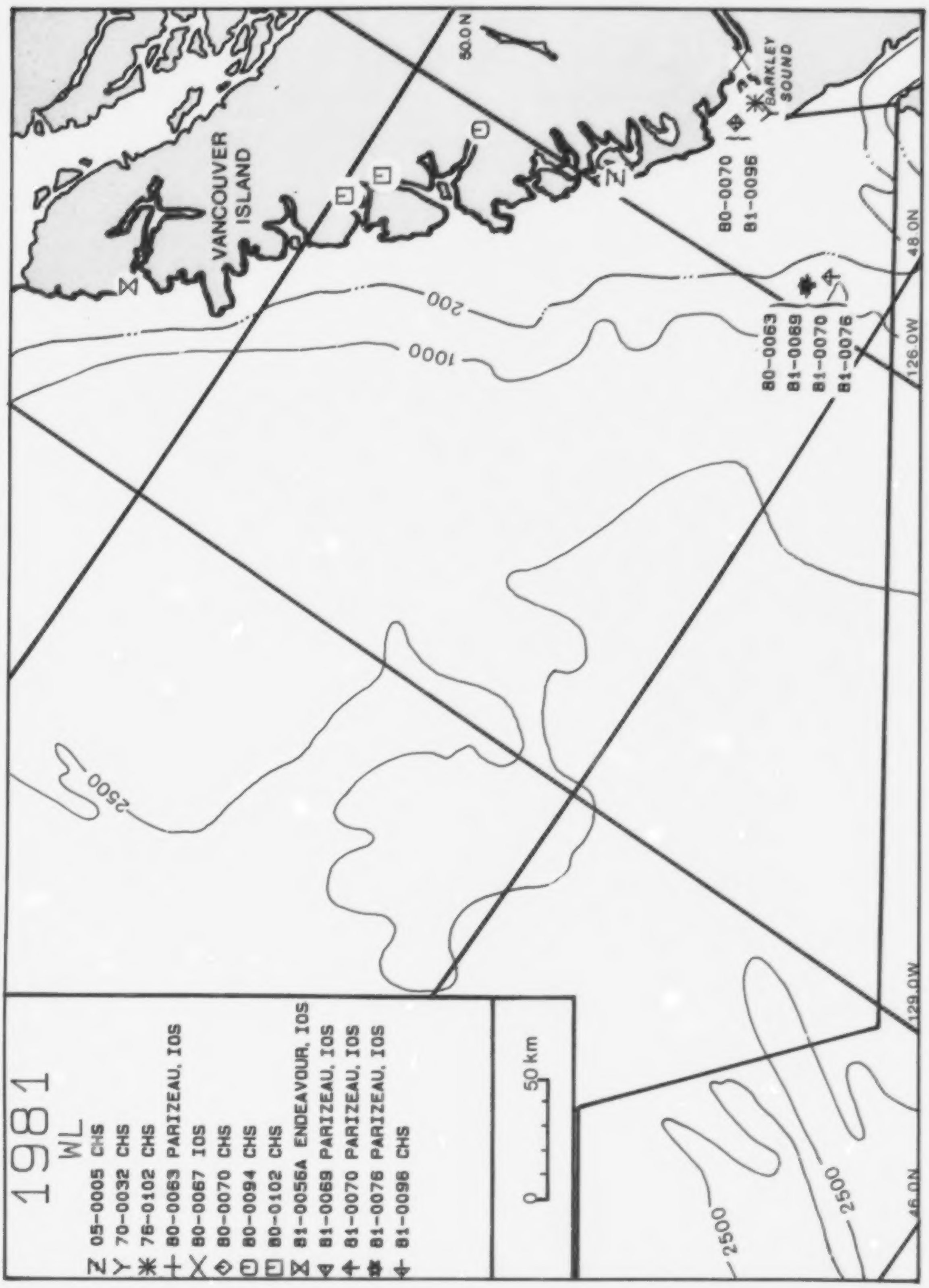

1981
TS
Δ 81-0077 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

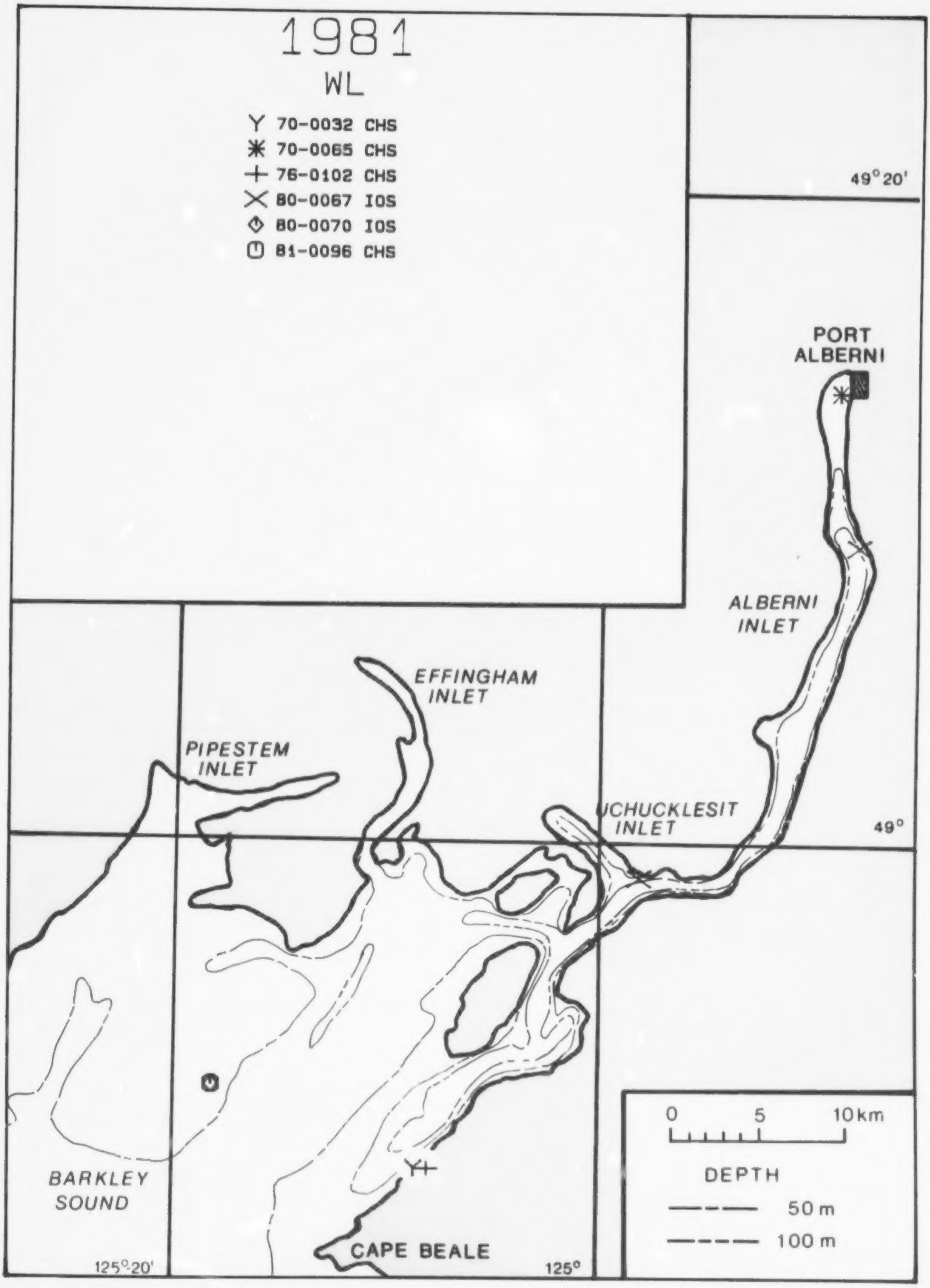

1981
TS
△ 81-0078 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

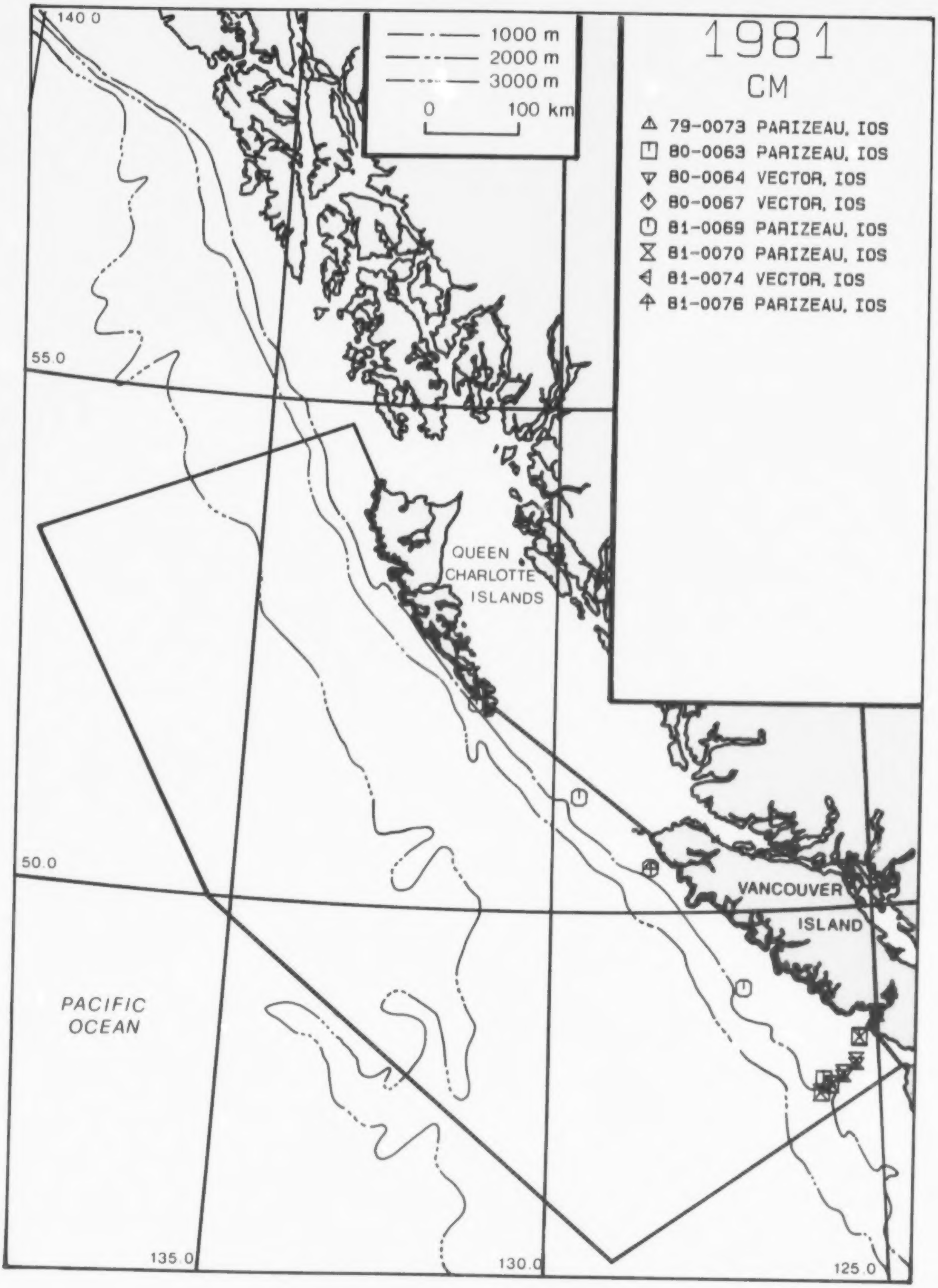

1981
TS
▲ 81-0079 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

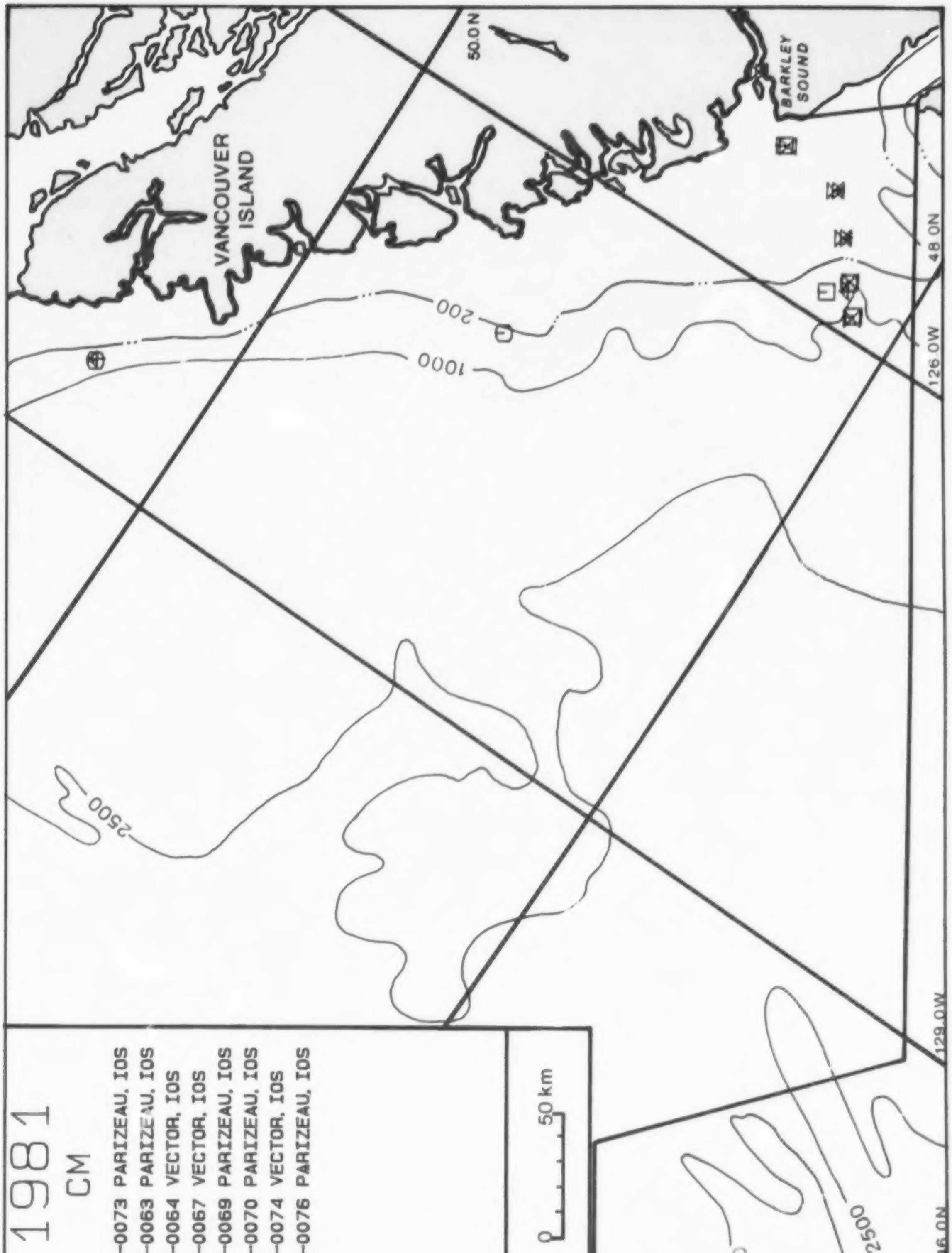

DEPTH ---- 100m
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
128°
127°30'
1981
TS
▲ 35-0008 MOT
☐ 71-0097 UTAH MINES
▼ 81-0071 VECTOR, IOS
◇ 81-0095 EPS

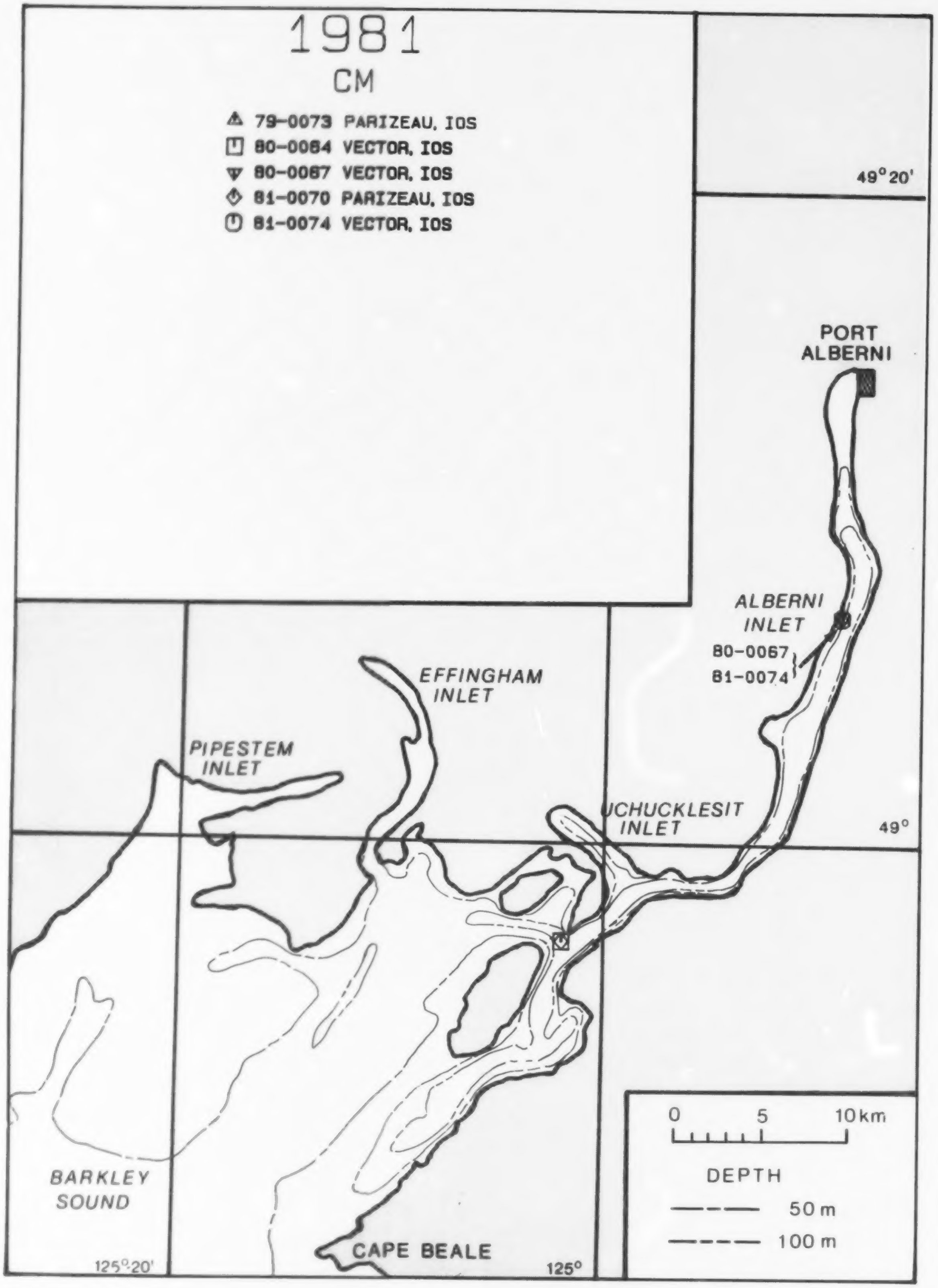

1981
WL
Ƶ 05-0005 CHS
Y 70-0032 CHS
✳ 70-0065 CHS
+ 75-0070 CHS
× 76-0102 CHS
◈ 80-0063 PARIZEAU, IOS
⏻ 80-0067 IOS
⧗ 80-0070 CHS
◁ 80-0094 CHS
⊔ 80-0102 CHS
↑ 81-0055 ENDEAVOUR, IOS
← 81-0069 PARIZEAU, IOS
⋈ 81-0070 PARIZEAU, IOS
↓ 81-0076 PARIZEAU, IOS
X 81-0096 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
135.0
130.0
125.0
55.0
50.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

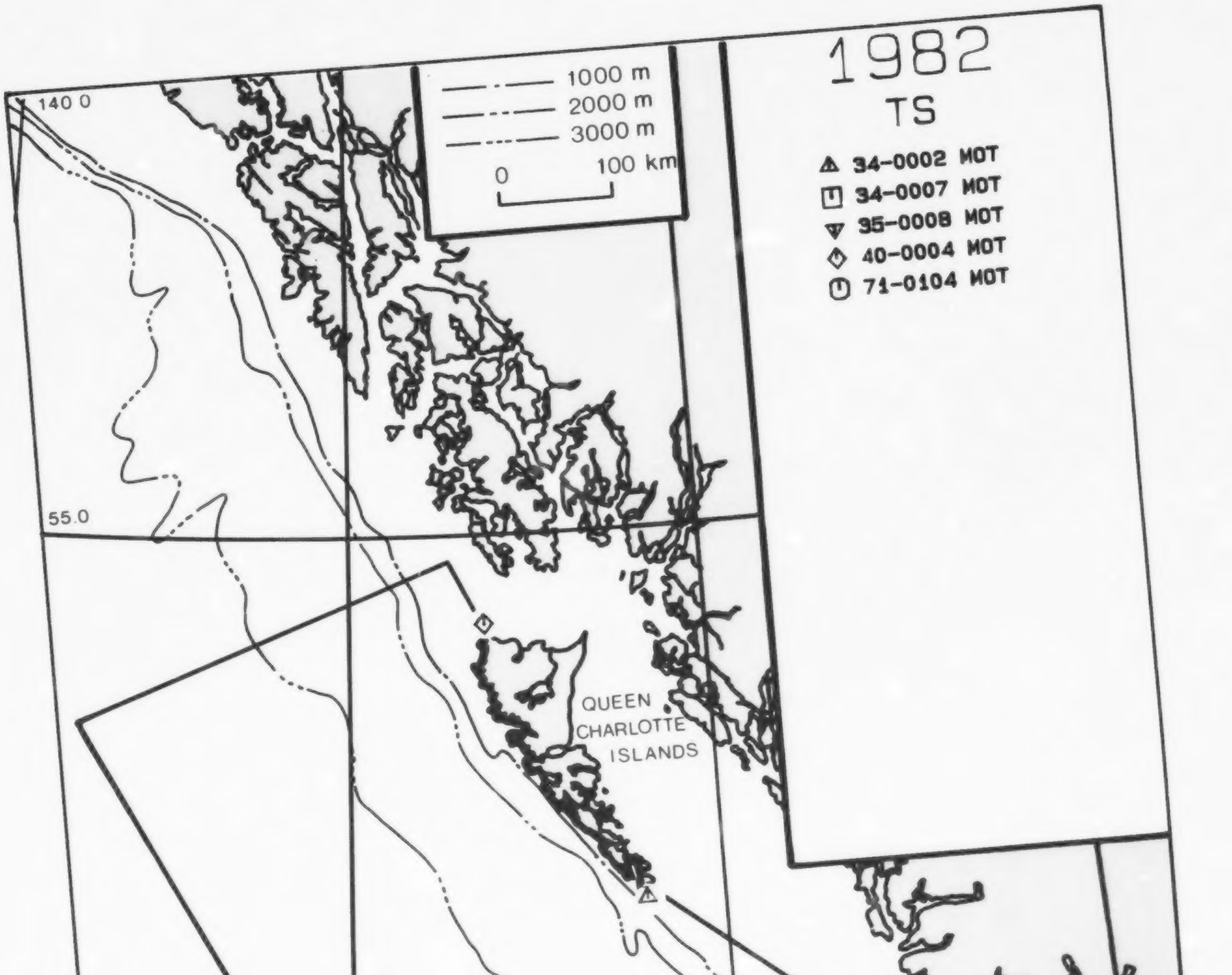

1981
WL
Z 05-0005 CHS
Y 70-0032 CHS
✱ 76-0102 CHS
+ 80-0063 PARIZEAU, IOS
X 80-0067 IOS
◇ 80-0070 CHS
80-0094 CHS
80-0102 CHS
81-0056A ENDEAVOUR, IOS
81-0069 PARIZEAU, IOS
81-0070 PARIZEAU, IOS
81-0076 PARIZEAU, IOS
81-0096 CHS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500
80-0070
81-0096
80-0063
81-0069
81-0070
81-0076

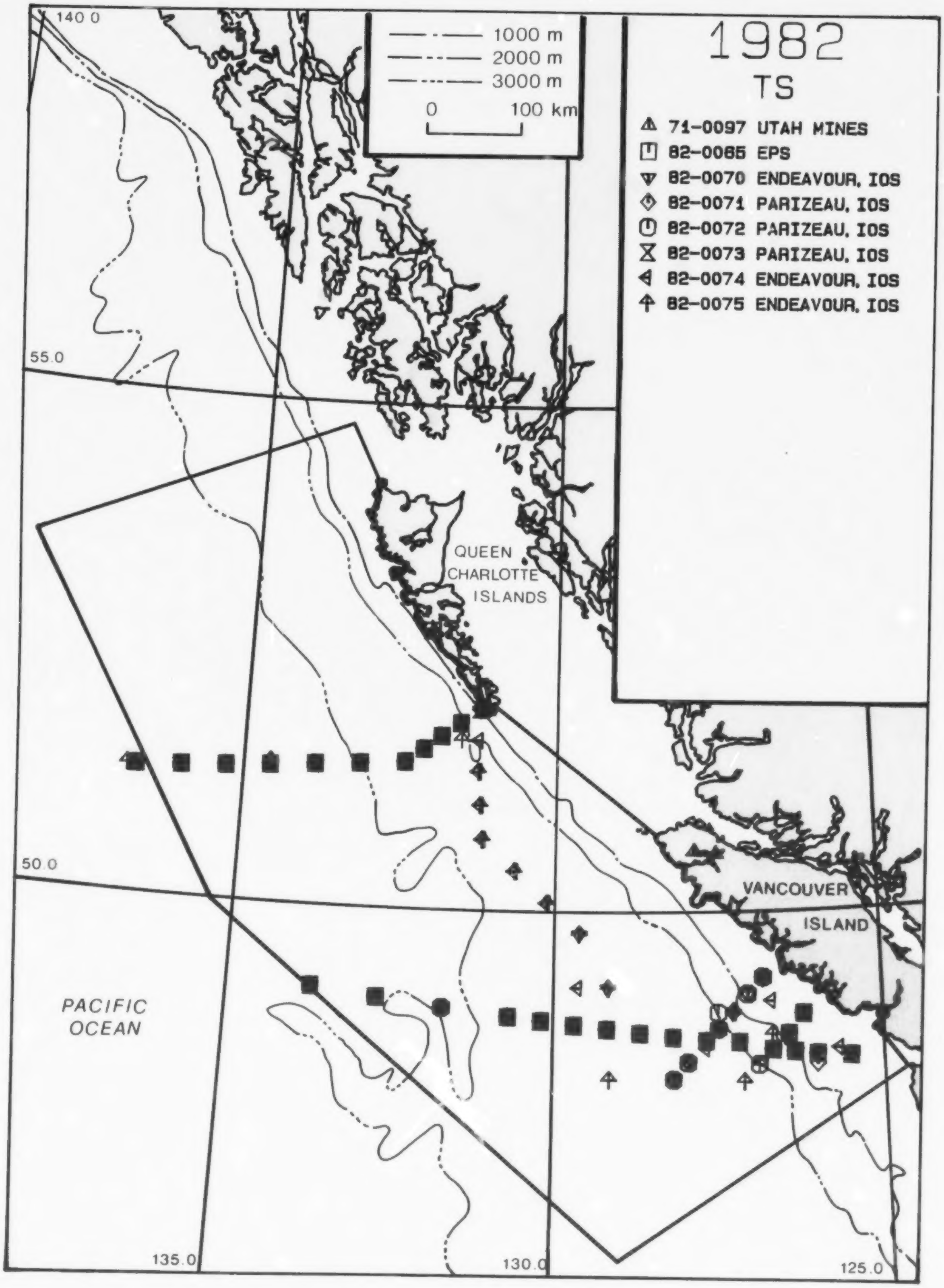

1981
WL
Y 70-0032 CHS
✳ 70-0065 CHS
+ 76-0102 CHS
× 80-0067 IOS
◇ 80-0070 IOS
⏀ 81-0096 CHS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

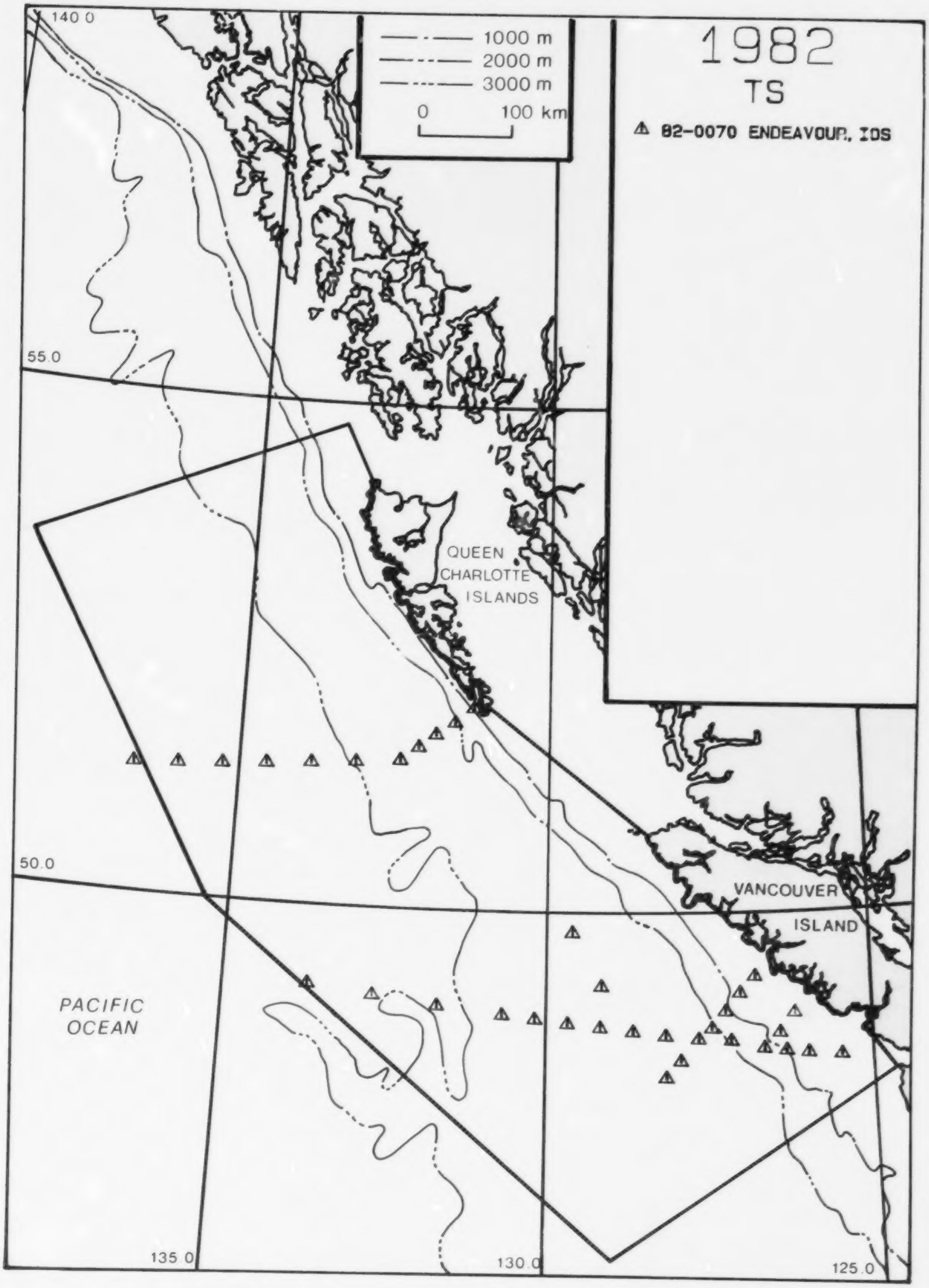

1981
CM
△ 79-0073 PARIZEAU, IOS
□ 80-0063 PARIZEAU, IOS
▽ 80-0064 VECTOR, IOS
◇ 80-0067 VECTOR, IOS
○ 81-0069 PARIZEAU, IOS
⧗ 81-0070 PARIZEAU, IOS
◁ 81-0074 VECTOR, IOS
↑ 81-0076 PARIZEAU, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

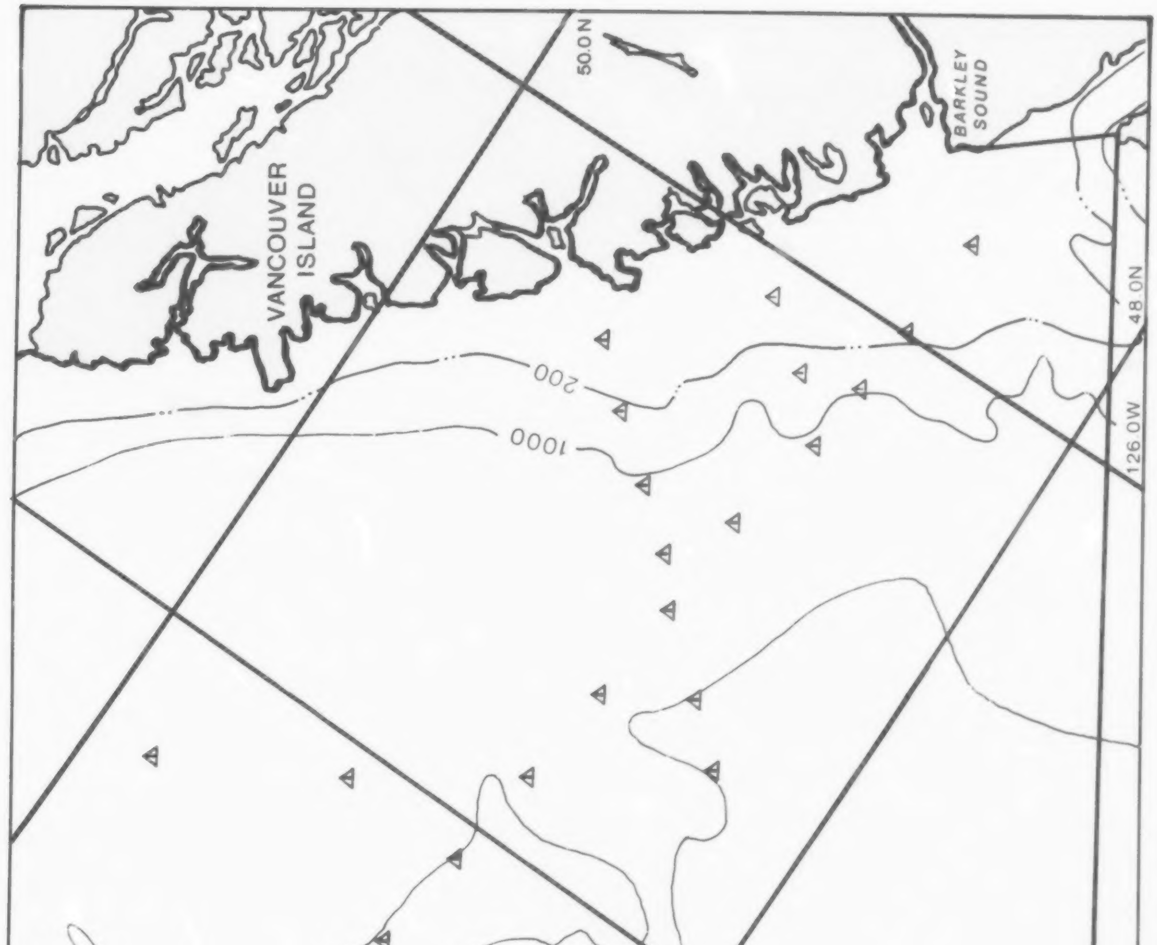

1981
CM
△ 79-0073 PARIZEAU, IOS
□ 80-0063 PARIZEAU, IOS
▽ 80-0064 VECTOR, IOS
◇ 80-0067 VECTOR, IOS
○ 81-0069 PARIZEAU, IOS
⊠ 81-0070 PARIZEAU, IOS
◁ 81-0074 VECTOR, IOS
✢ 81-0076 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

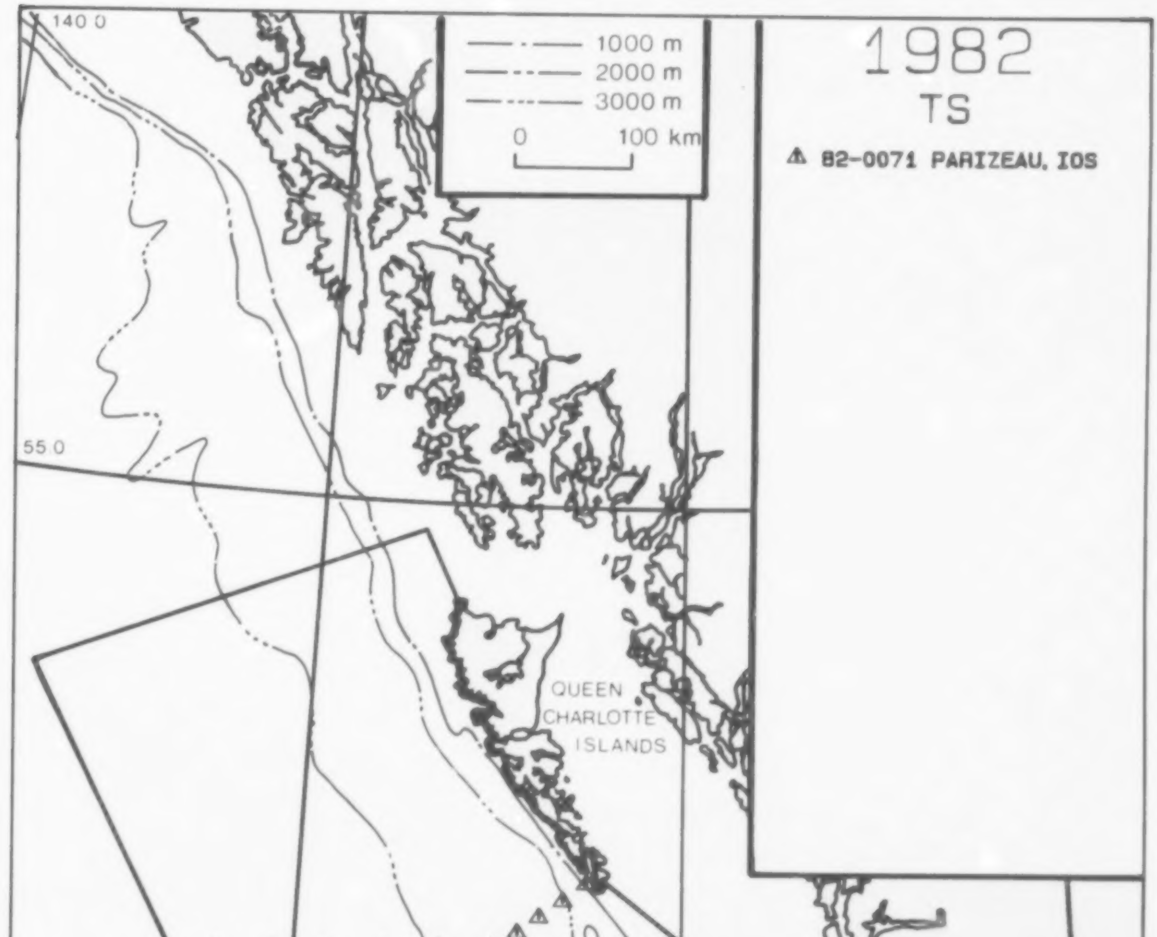

1981
CM
△ 79-0073 PARIZEAU, IOS
□ 80-0064 VECTOR, IOS
▽ 80-0067 VECTOR, IOS
◇ 81-0070 PARIZEAU, IOS
○ 81-0074 VECTOR, IOS
49°20'
PORT ALBERNI
ALBERNI INLET
80-0067
81-0074
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10 km
DEPTH
50 m
100 m

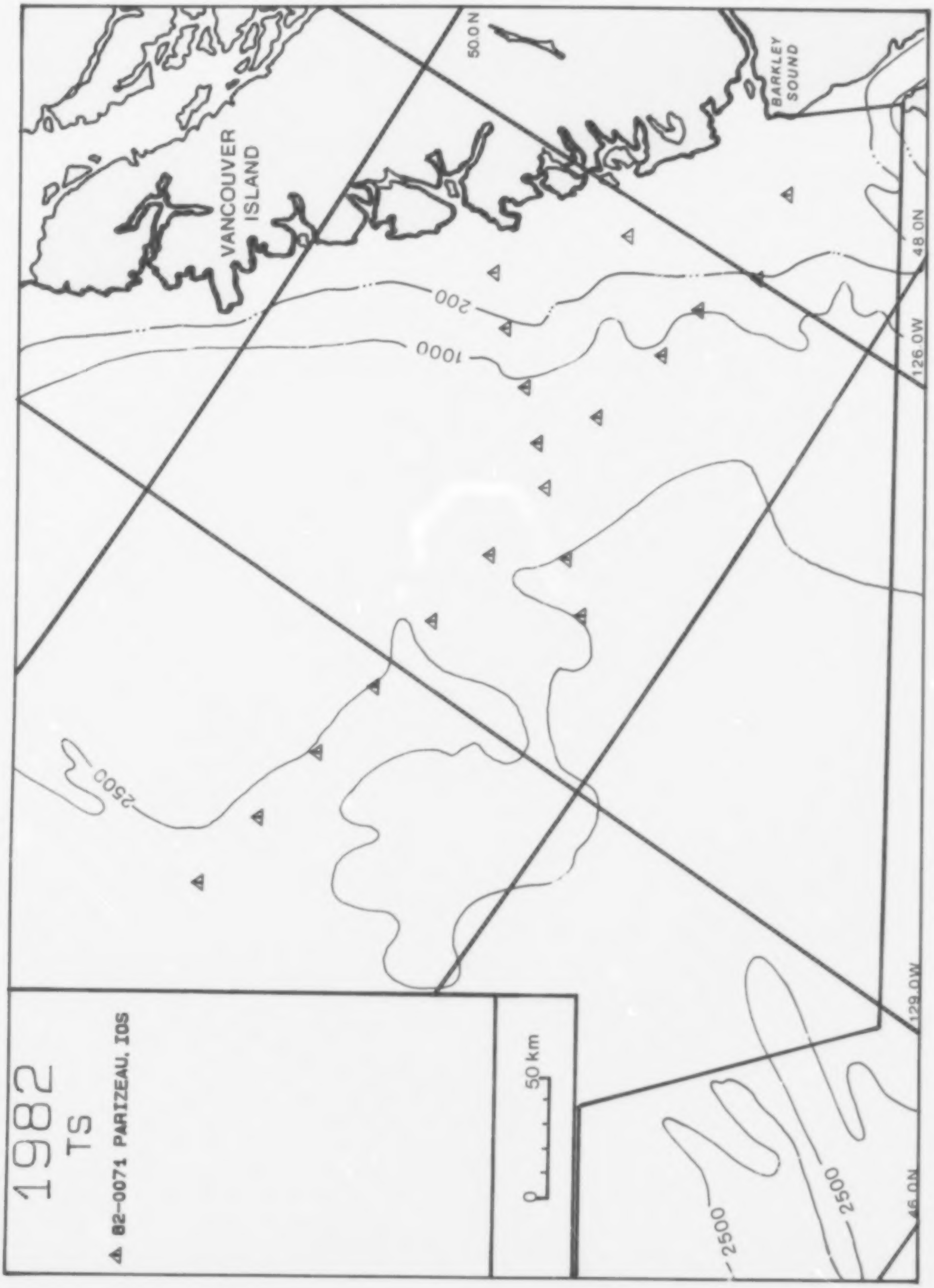

1000 m
2000 m
3000 m
0
100 km
1982
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
71-0104 MOT
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

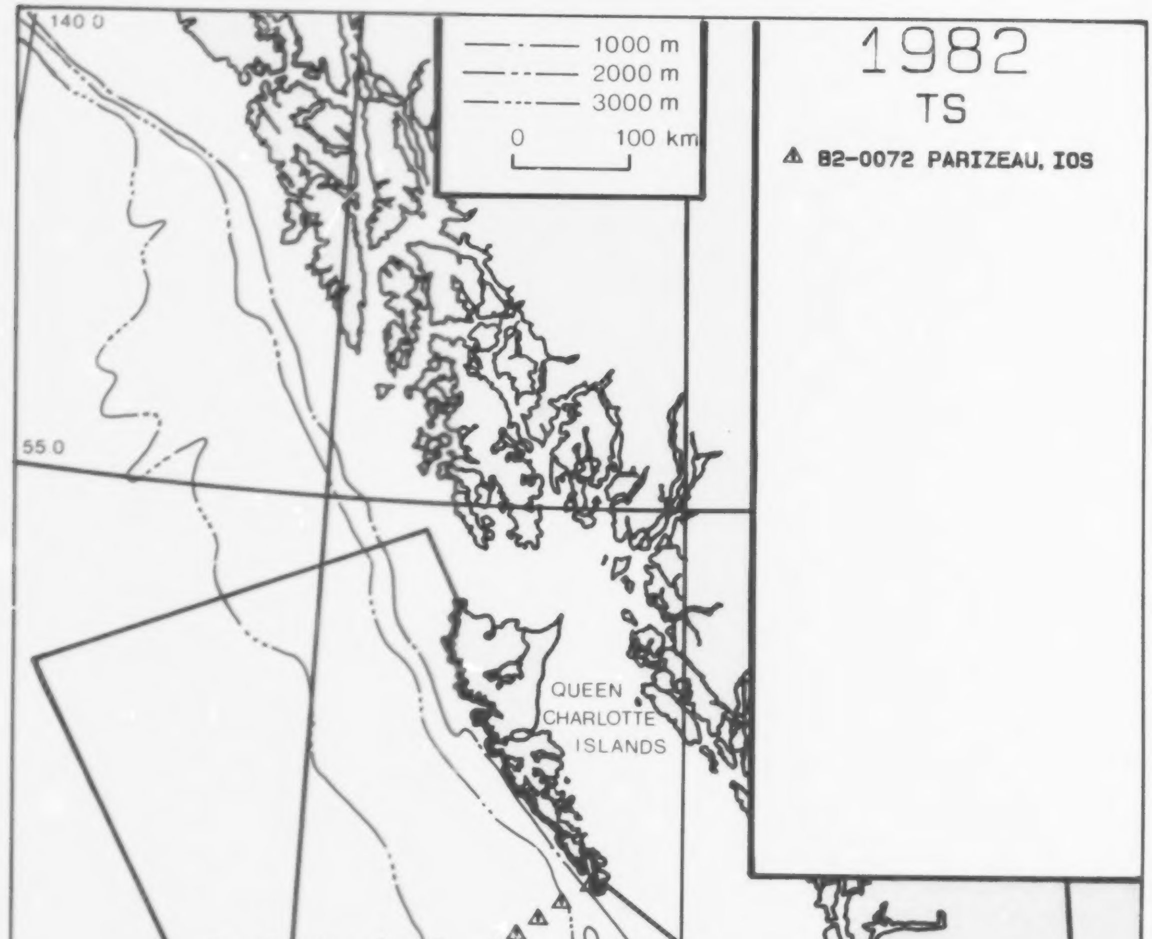

1000 m
2000 m
3000 m
0
100 km
1982
TS
71-0097 UTAH MINES
82-0065 EPS
82-0070 ENDEAVOUR, IOS
82-0071 PARIZEAU, IOS
82-0072 PARIZEAU, IOS
82-0073 PARIZEAU, IOS
82-0074 ENDEAVOUR, IOS
82-0075 ENDEAVOUR, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

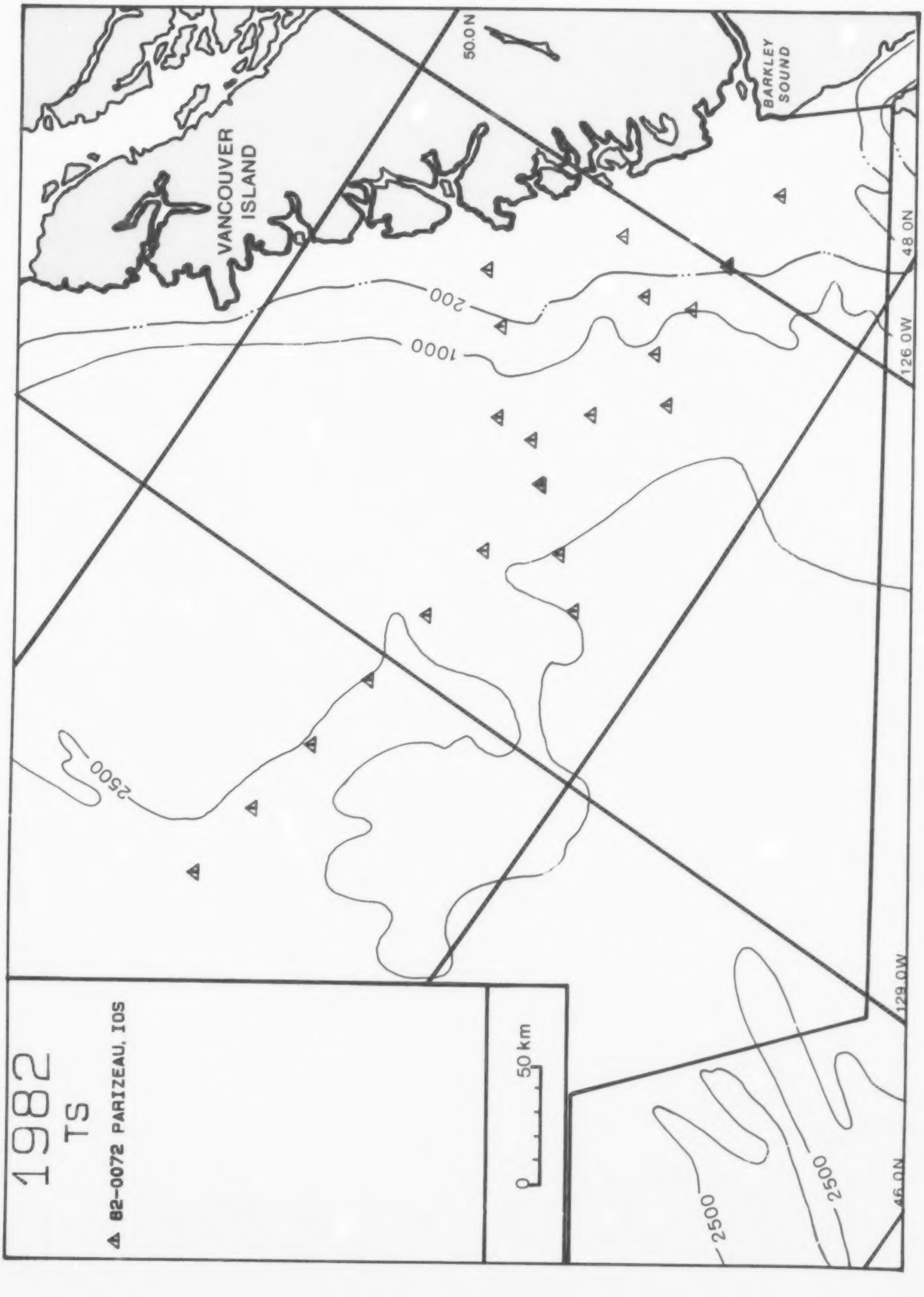

1000 m
2000 m
3000 m
0
100 km
1982
TS
⚠ 82-0070 ENDEAVOUR, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

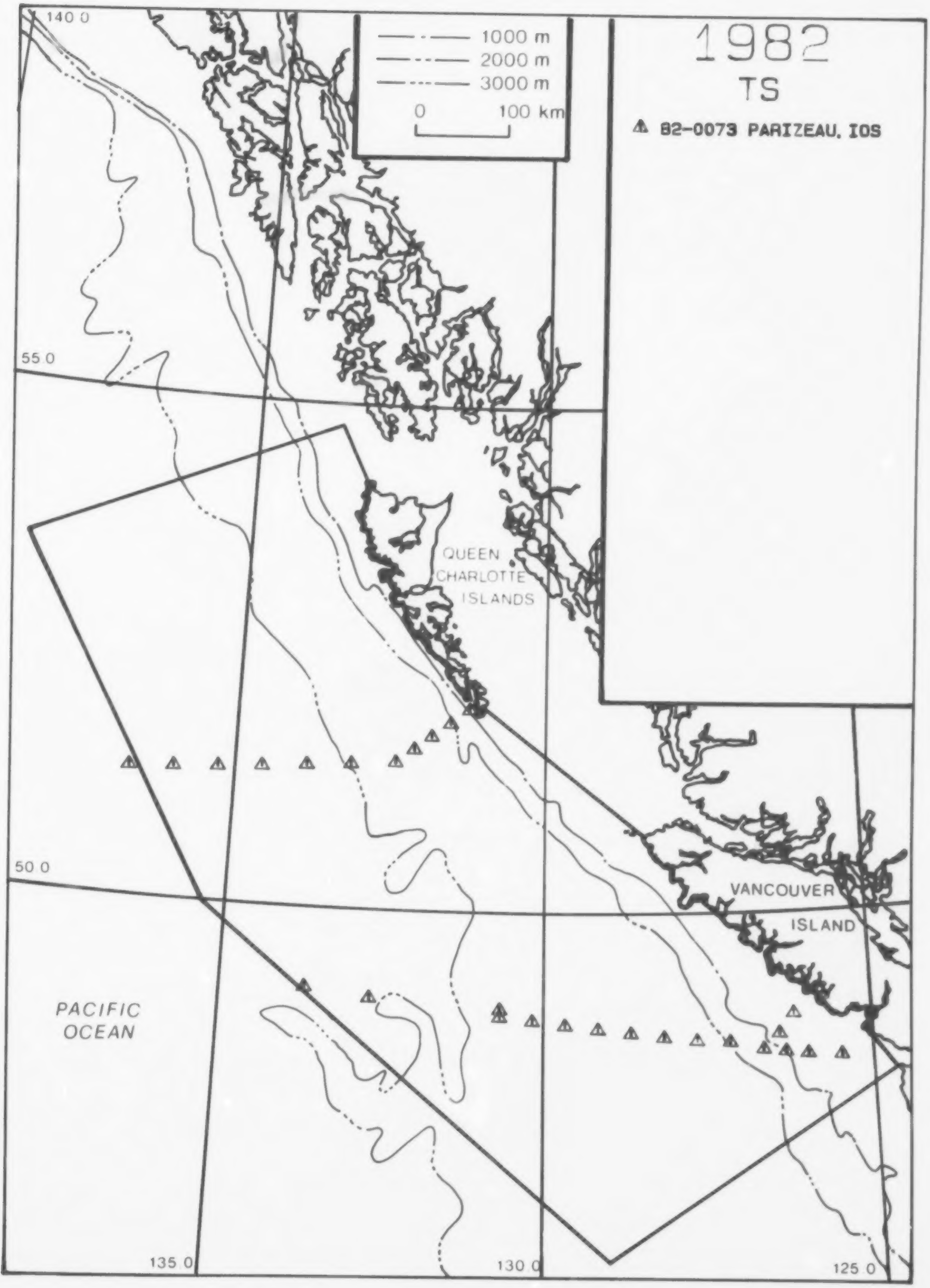

1982
Ts
82-0070 ENDEAVOUR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

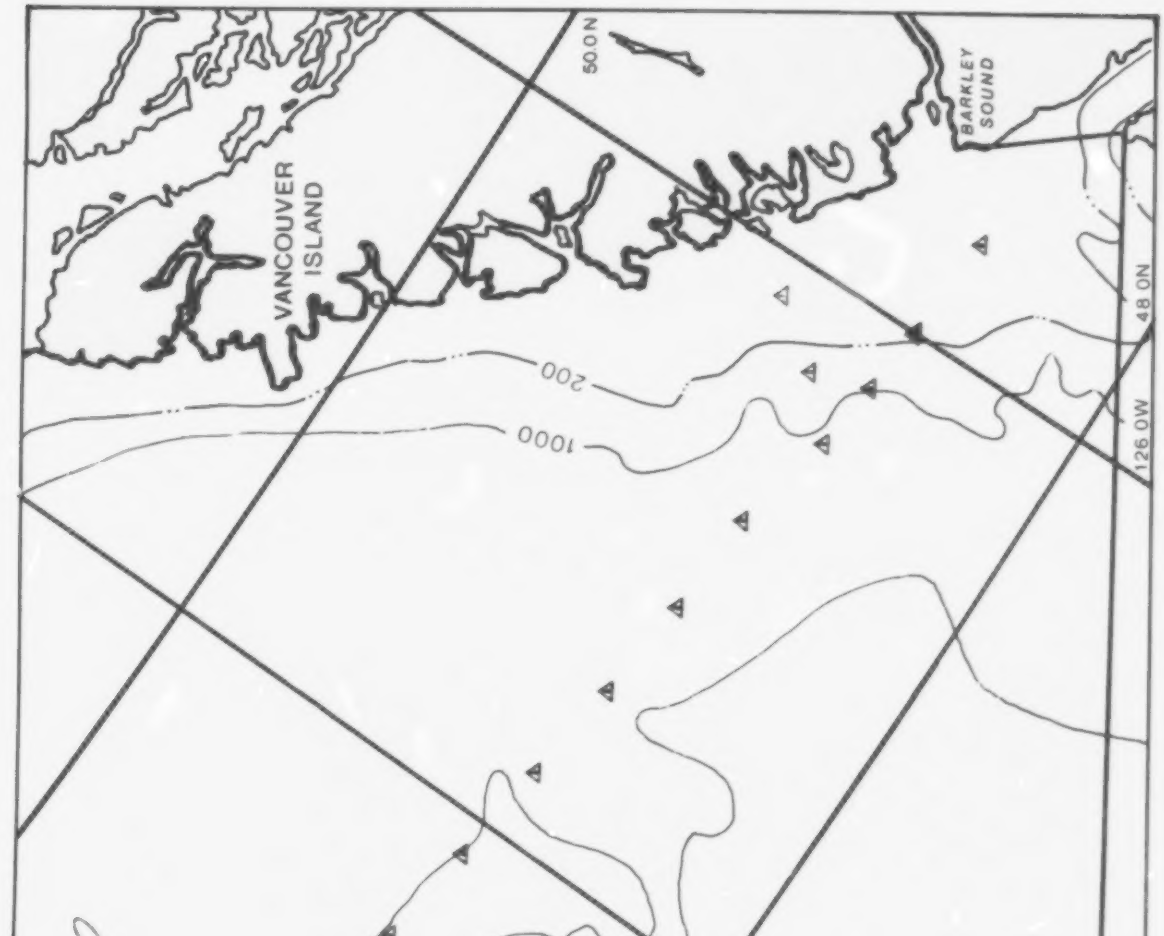

140.0
1000 m
2000 m
3000 m
0
100 km
1982
TS
⚠ 82-0071 PARIZEAU, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

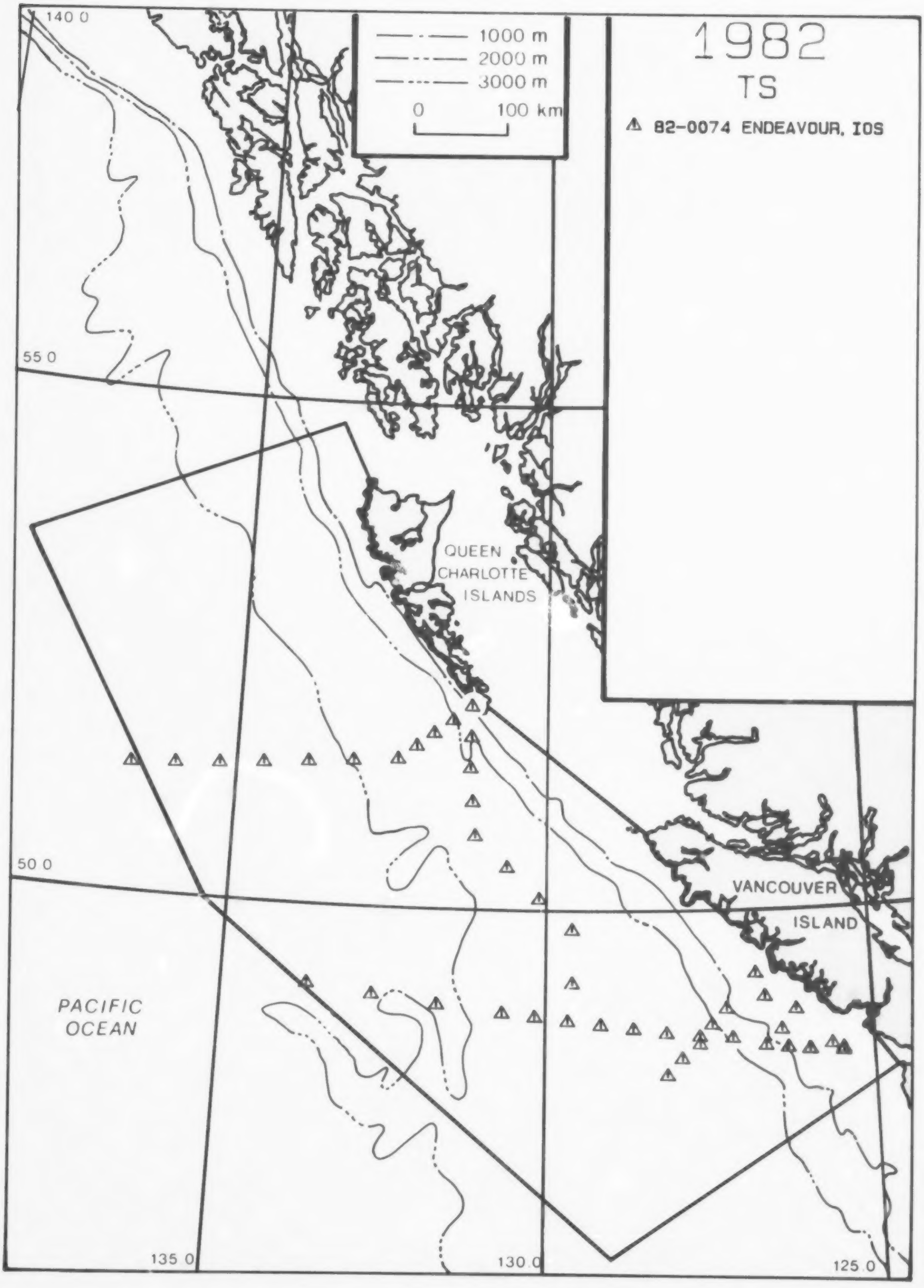

1982
TS
82-0071 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

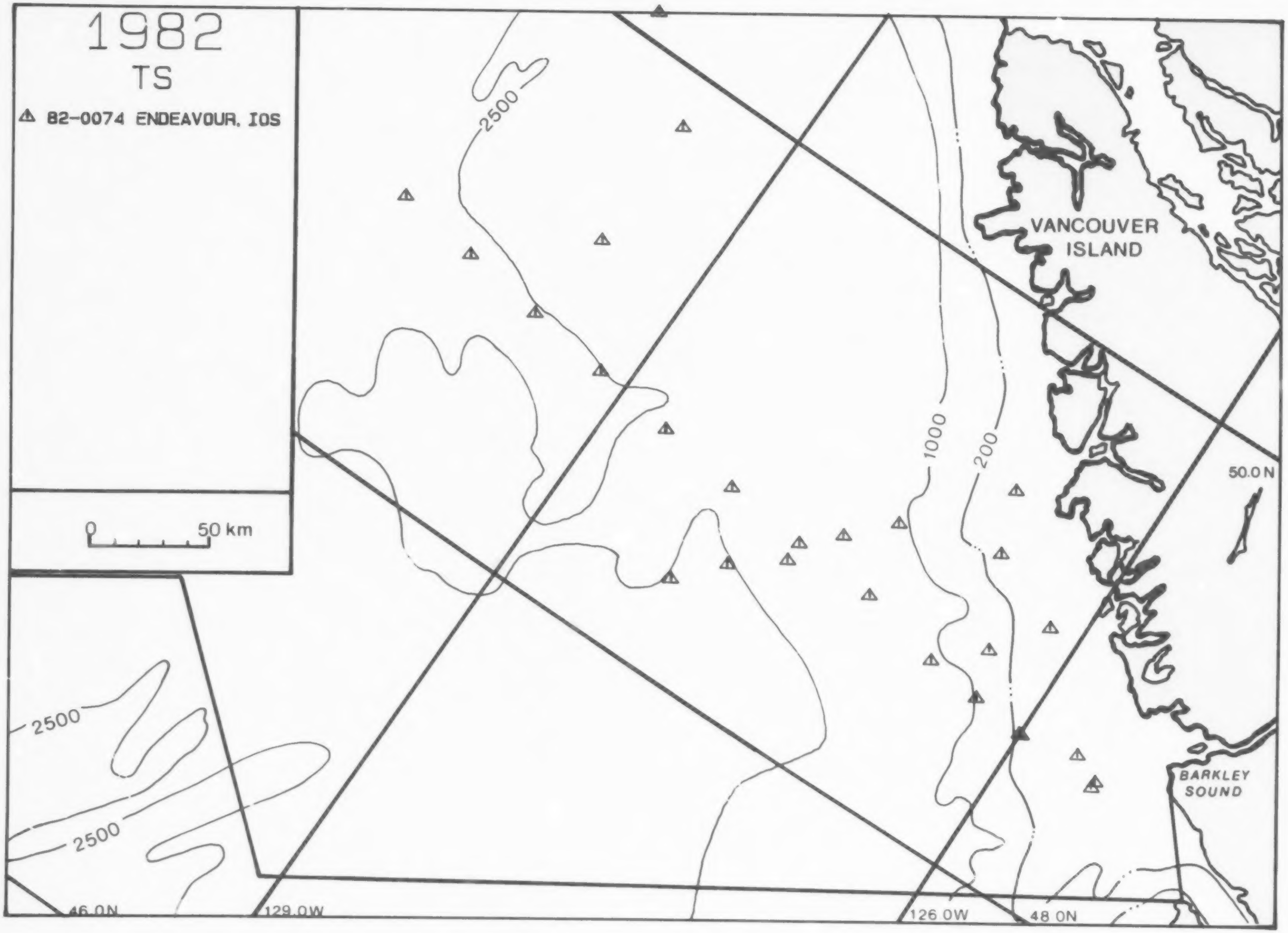

140.0
1000 m
2000 m
3000 m
0
100 km
1982
TS
▲ 82-0072 PARIZEAU, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

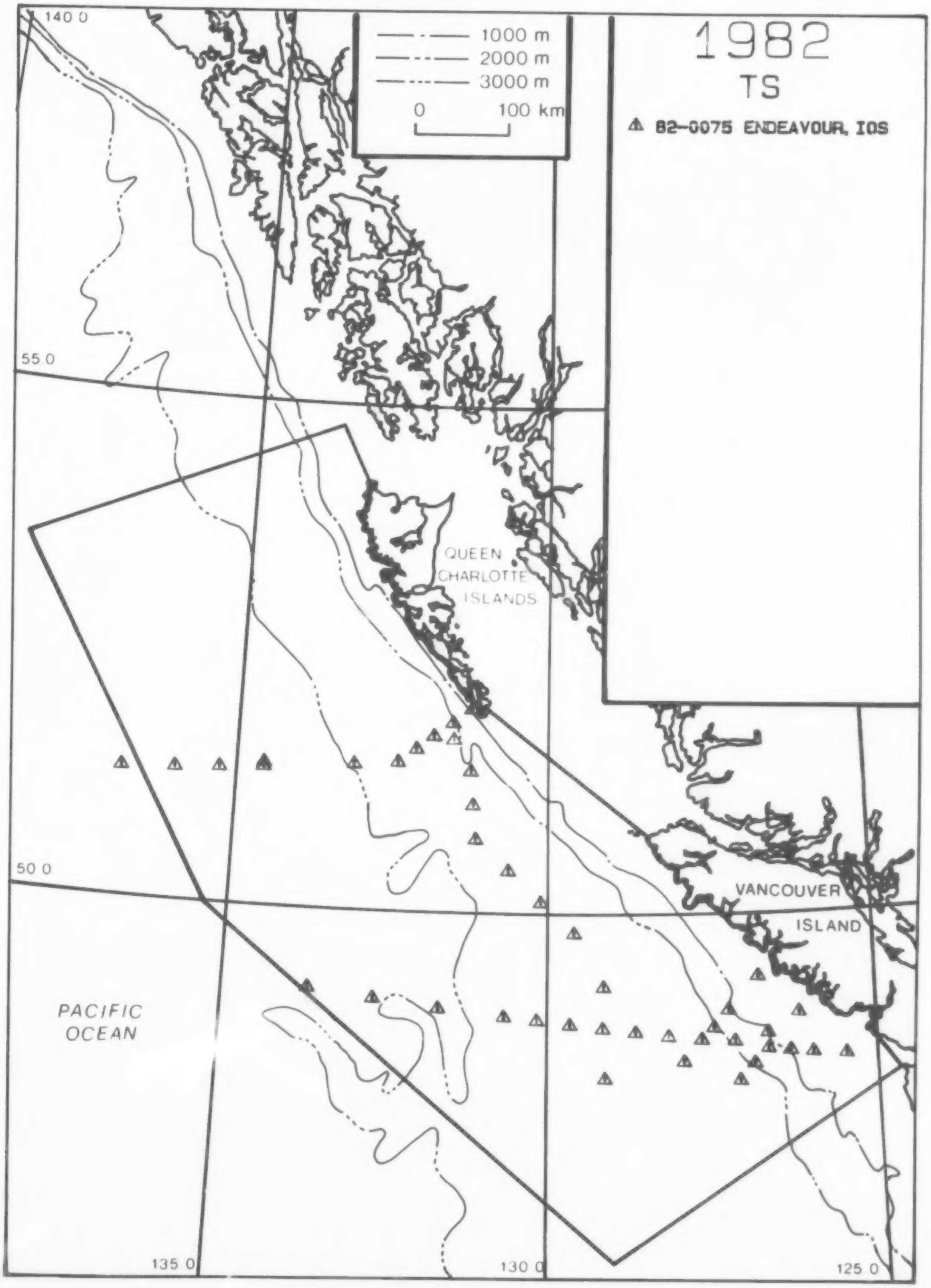

1982
TS
82-0072 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

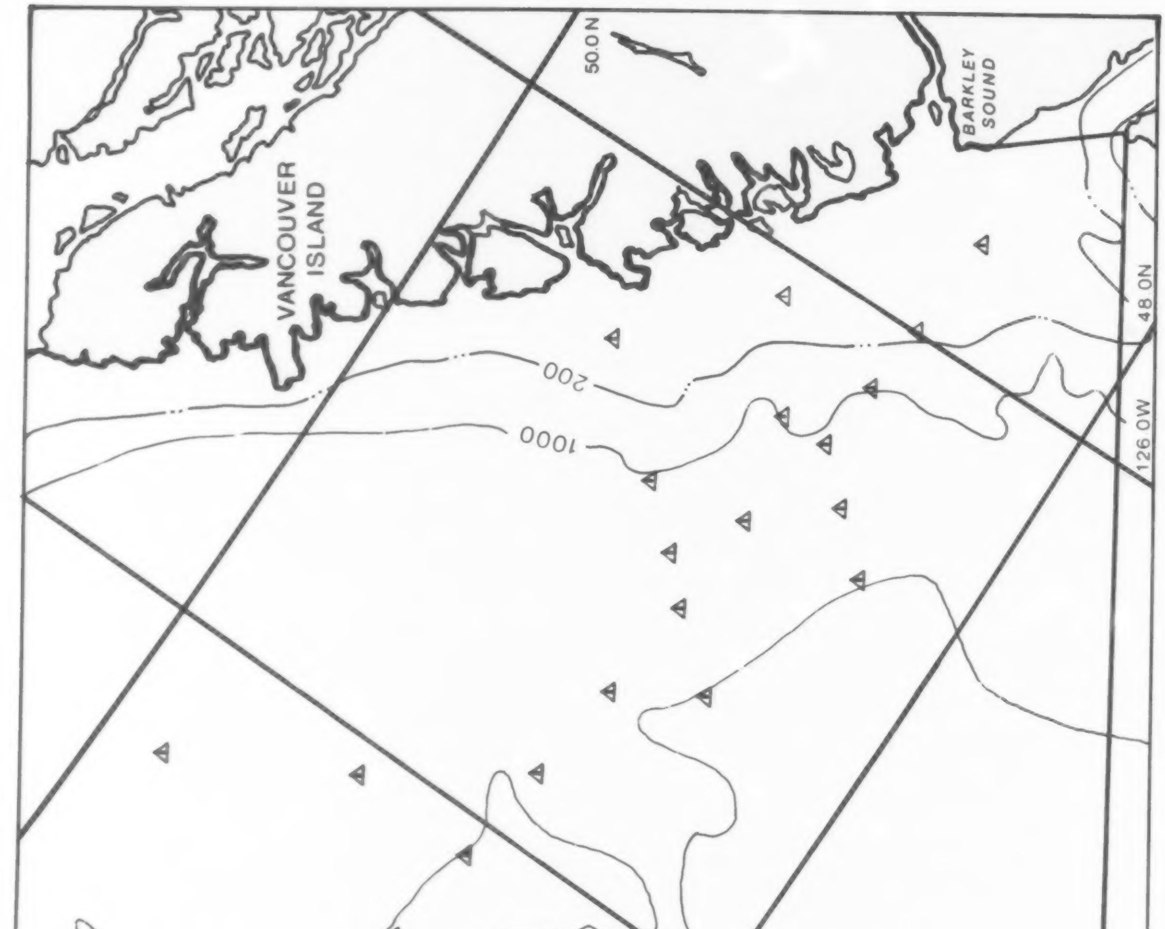

1982
TS
▲ 82-0073 PARIZEAU, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

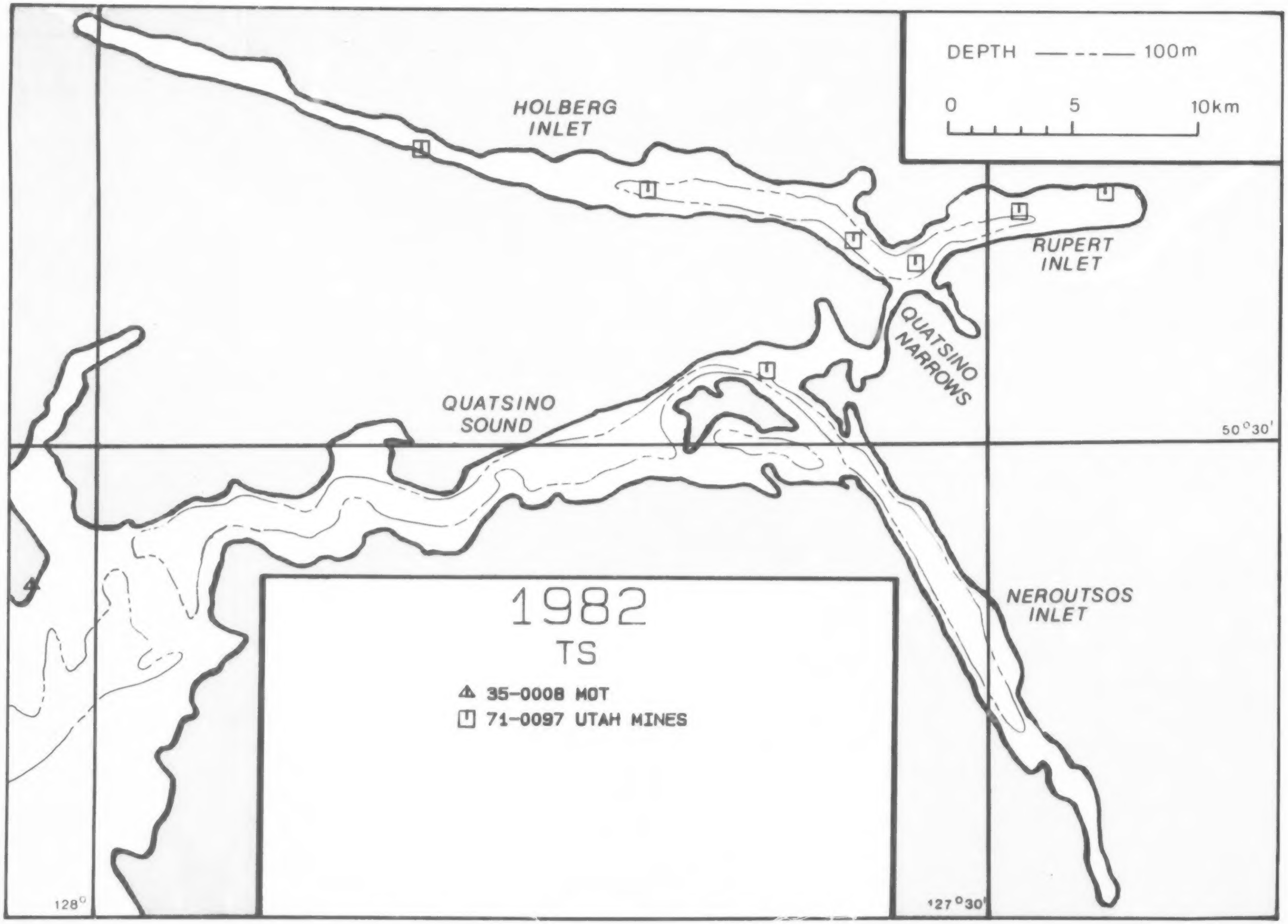

1982
TS
82-0073 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48 ON
126.0W
129.0W
46.0N
200
1000
2500
2500
2500
2500

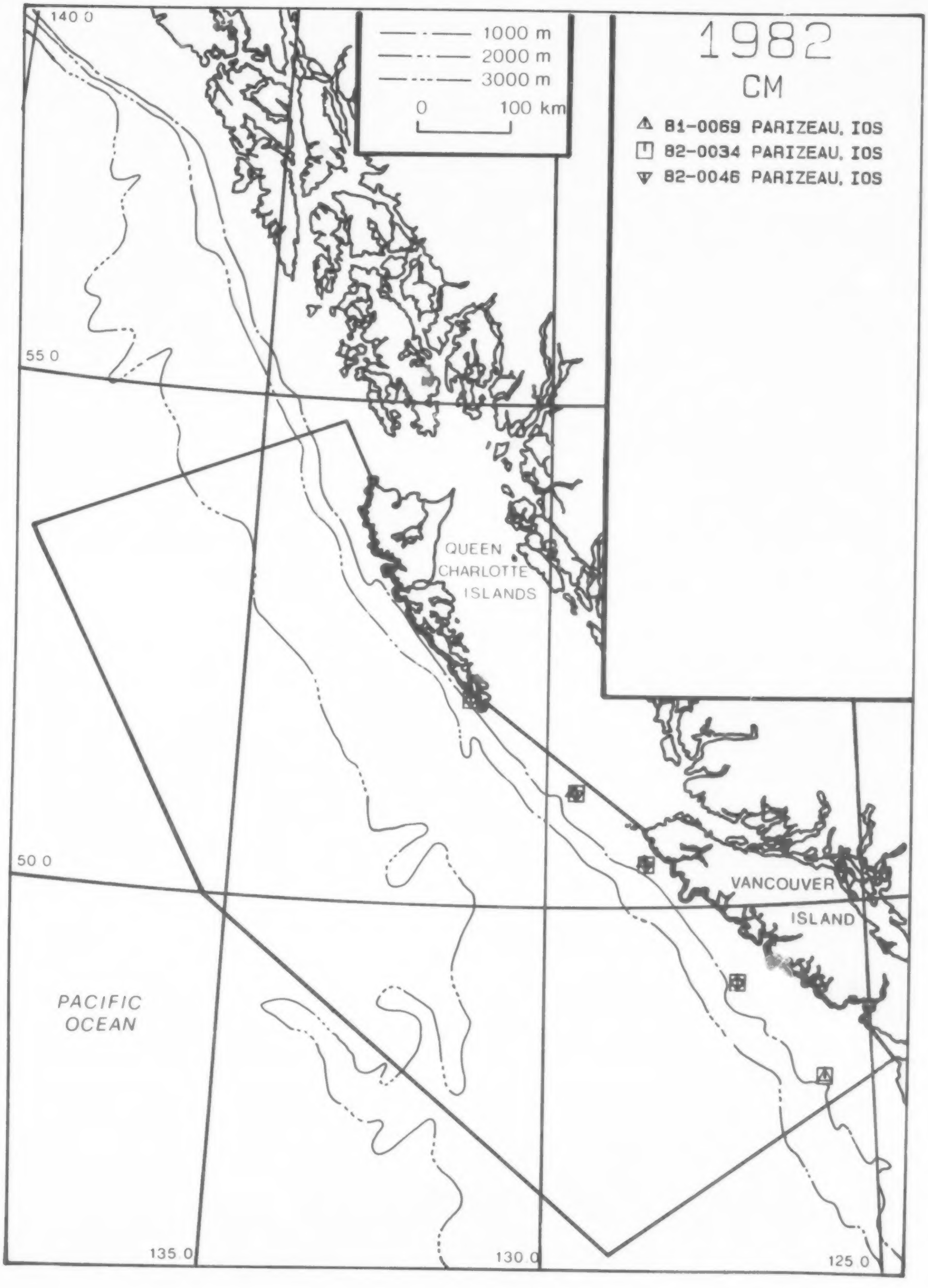

1000 m
2000 m
3000 m
0
100 km
1982
TS
⚠ 82-0074 ENDEAVOUR, IOS
140 0
55 0
50 0
135 0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

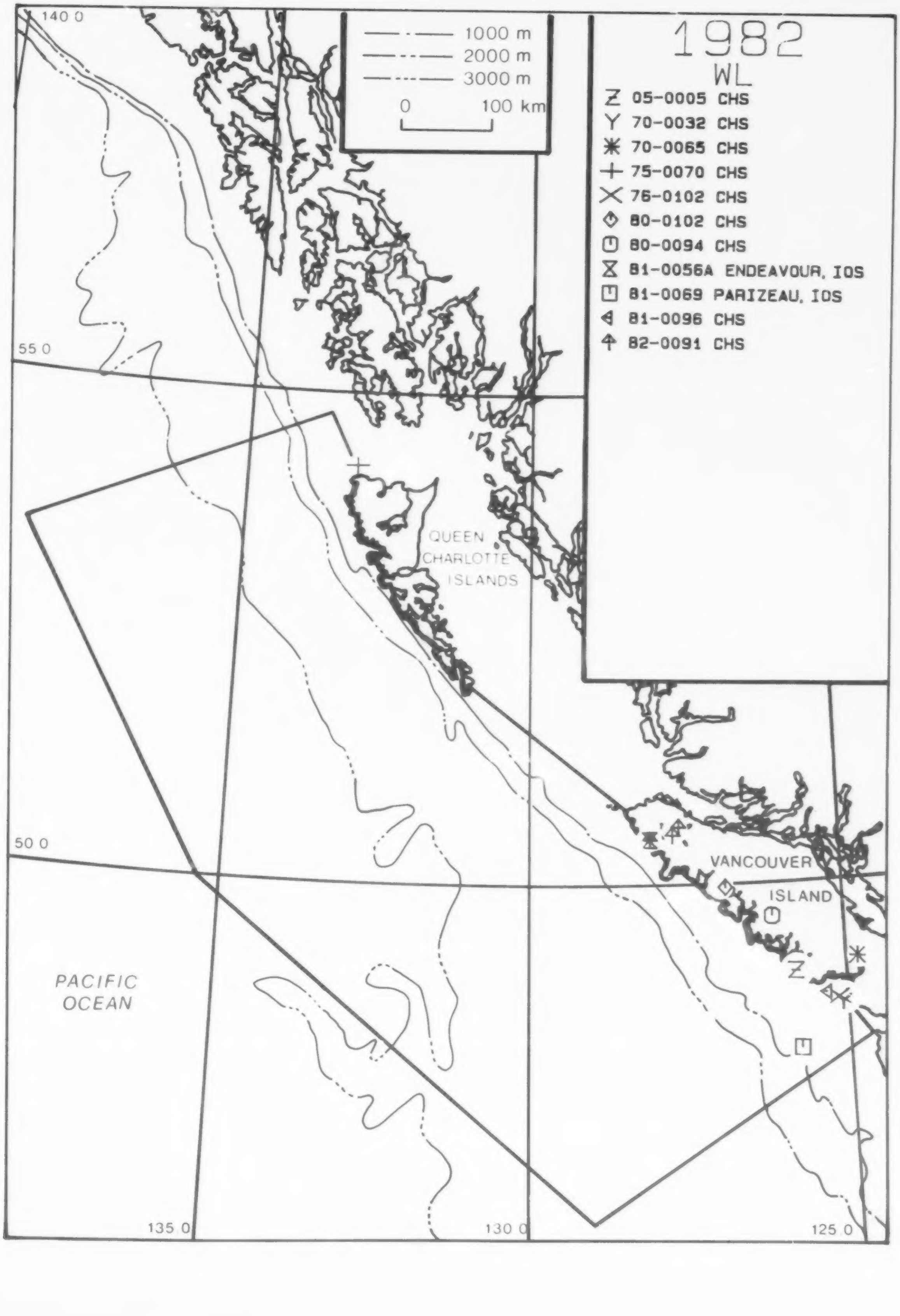

1982
TS
⚠ 82-0074 ENDEAVOUR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48 0N
46 0N
126 0W
129 0W
2500
2500
2500
1000
200

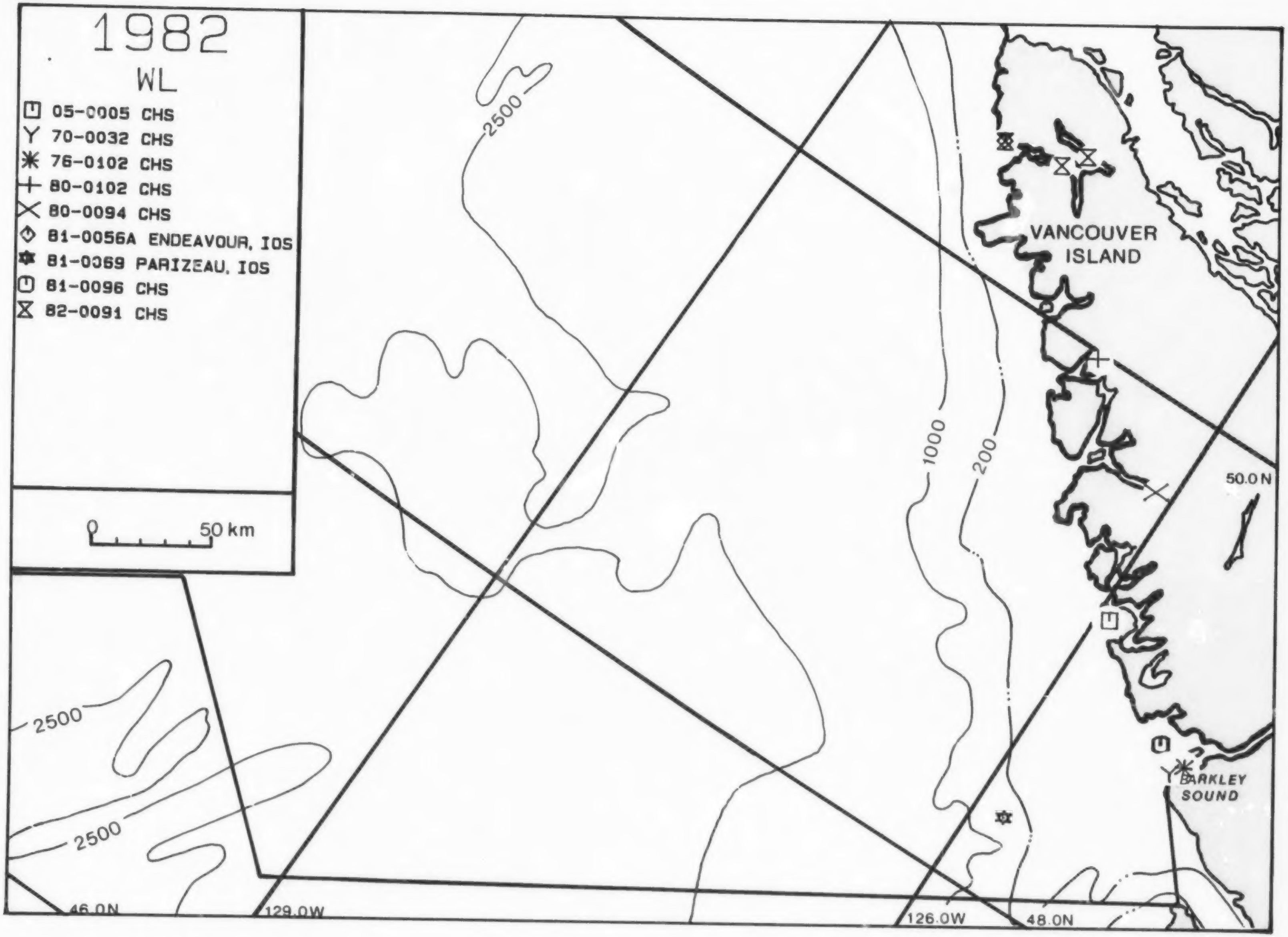

1000 m
2000 m
3000 m
0
100 km
1982
TS
82-0075 ENDEAVOUR, IOS
140 0
55 0
50 0
135 0
130 0
125 0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

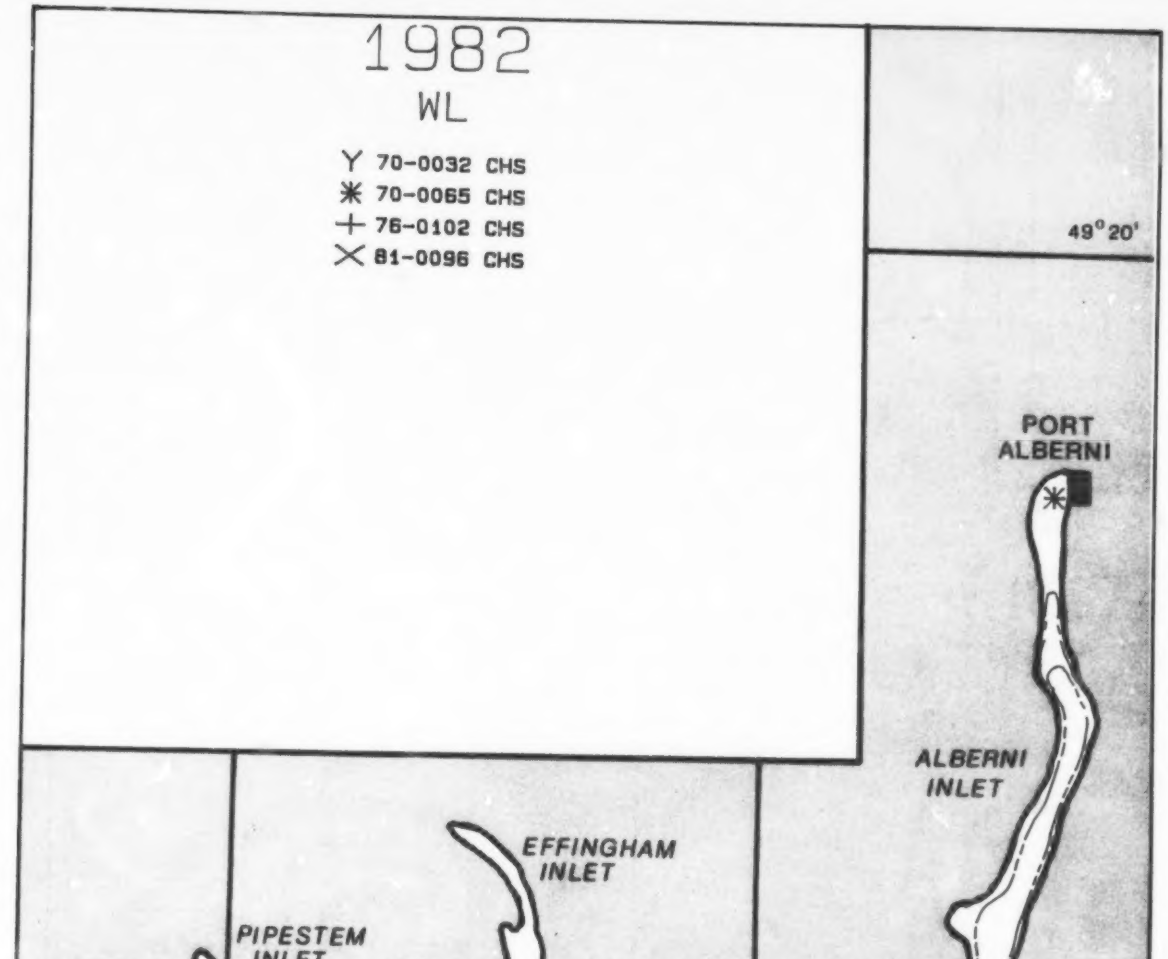

1982
Ts
△ 82-0075 ENDEAVOUR, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

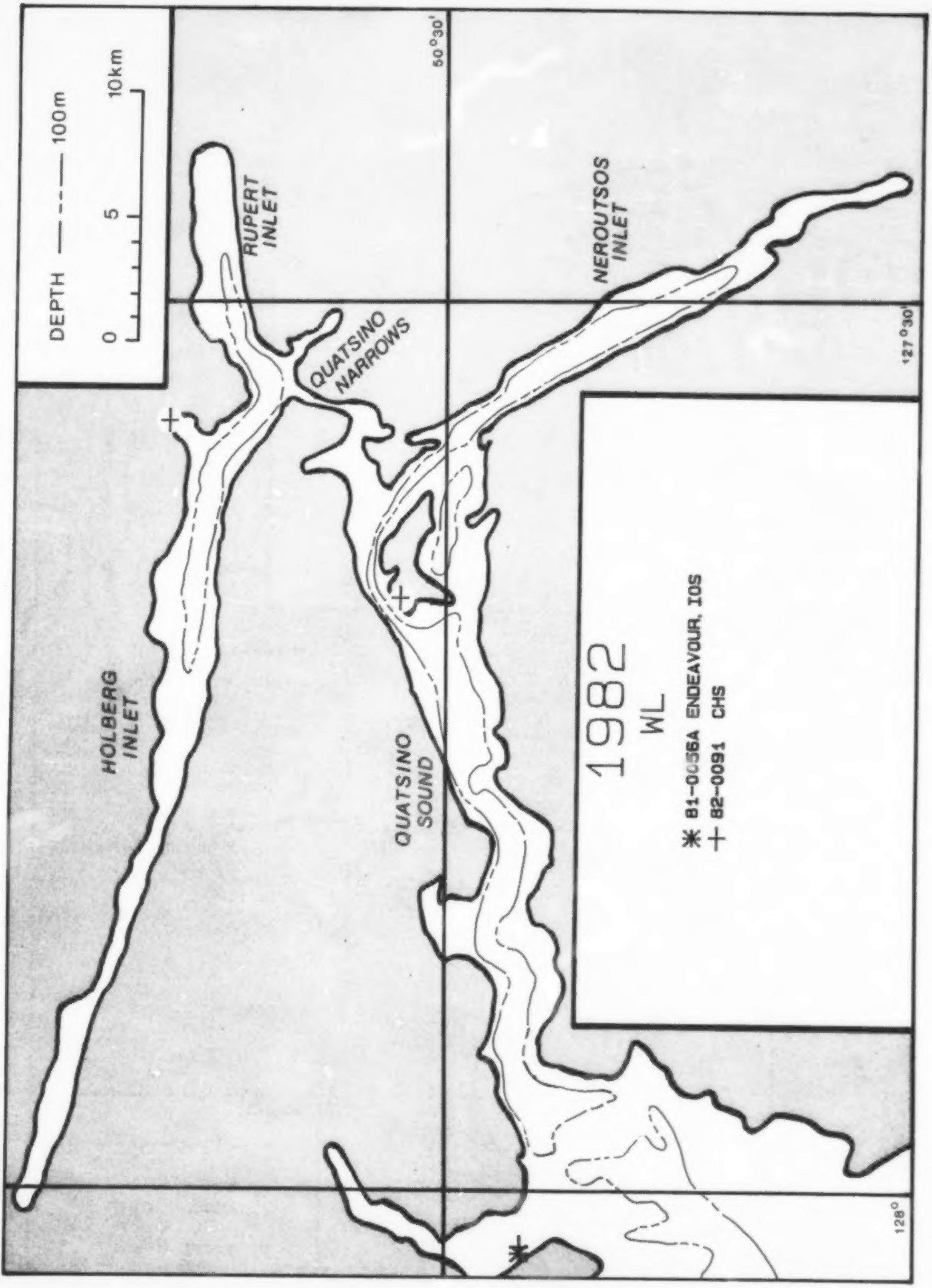

DEPTH — - - — 100m
0 5 10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
128°
127°30'
1982
TS
▲ 35-0008 MOT
☐ 71-0097 UTAH MINES

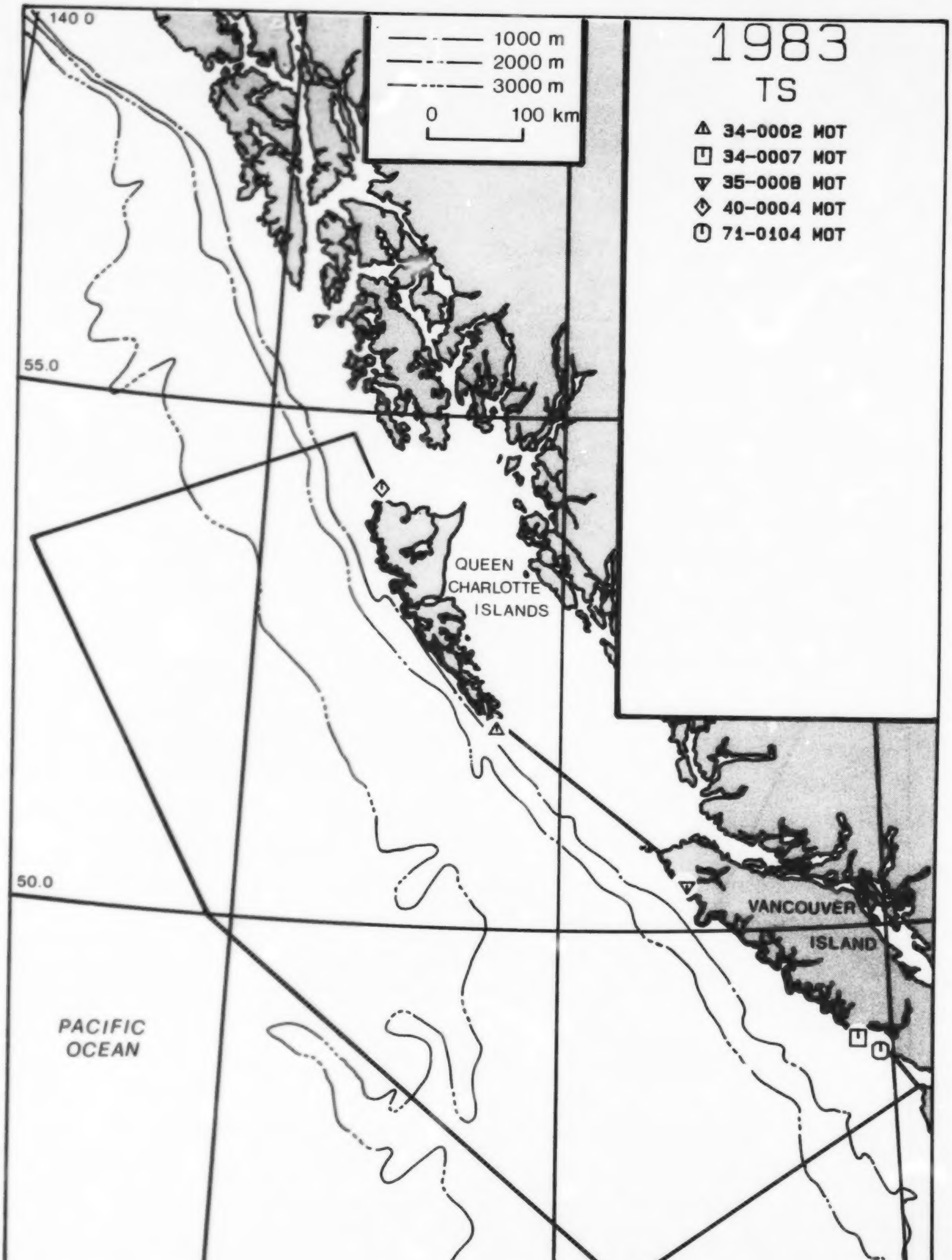

1000 m
2000 m
3000 m
0
100 km
1982
CM
△ 81-0069 PARIZEAU, IOS
◫ 82-0034 PARIZEAU, IOS
▽ 82-0046 PARIZEAU, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

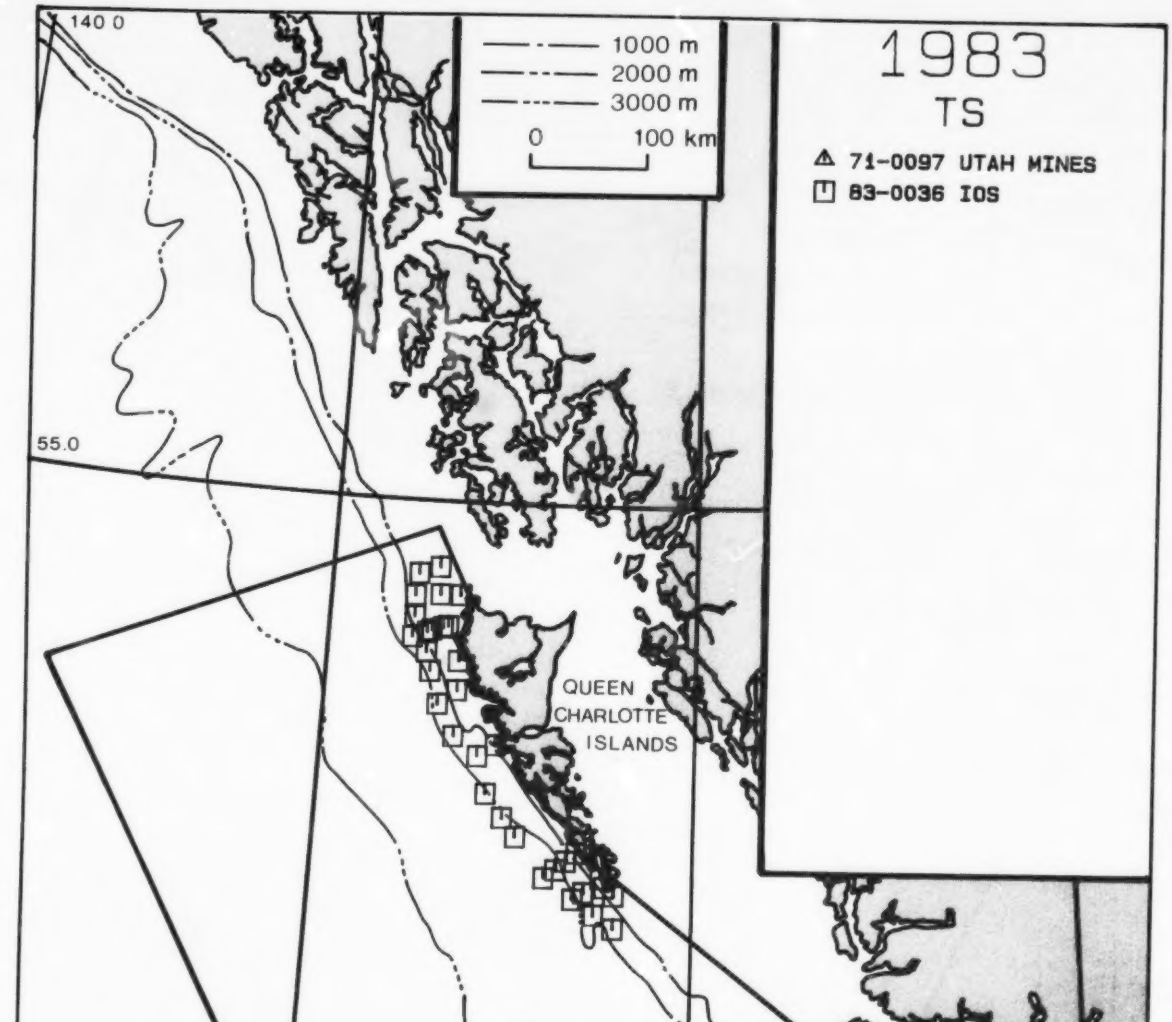

140 0
1000 m
2000 m
3000 m
0
100 km
1982
WL
Z 05-0005 CHS
Y 70-0032 CHS
✳ 70-0065 CHS
+ 75-0070 CHS
× 76-0102 CHS
◇ 80-0102 CHS
80-0094 CHS
⧗ 81-0056A ENDEAVOUR, IOS
81-0069 PARIZEAU, IOS
◁ 81-0096 CHS
82-0091 CHS
55 0
QUEEN
CHARLOTTE
ISLANDS
50 0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135 0
130 0
125 0

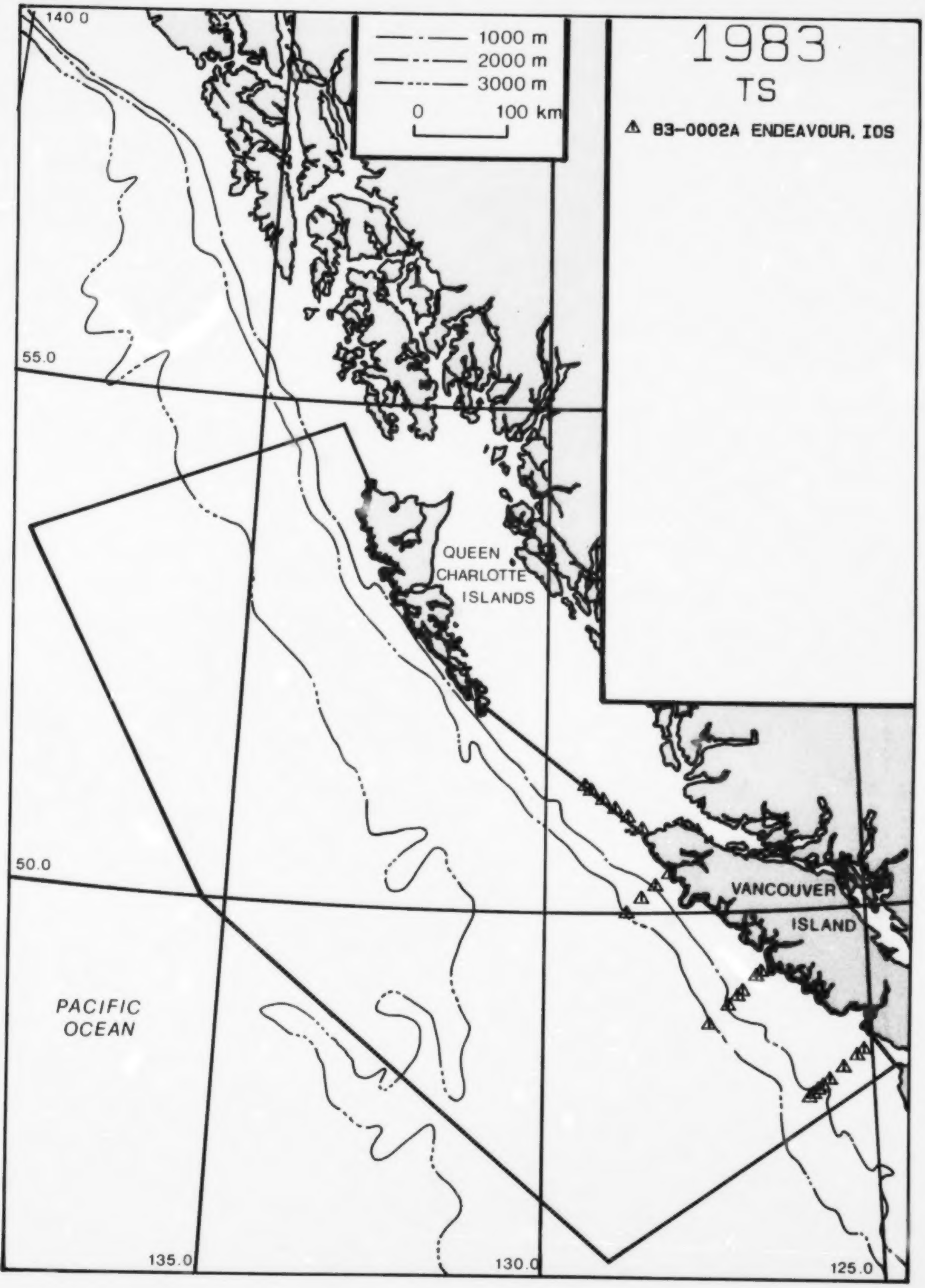

1982
WL
☐ 05-0005 CHS
Y 70-0032 CHS
✳ 76-0102 CHS
+ 80-0102 CHS
✕ 80-0094 CHS
◇ 81-0056A ENDEAVOUR, IOS
✡ 81-0369 PARIZEAU, IOS
○ 81-0096 CHS
⧗ 82-0091 CHS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0 N
48.0N
46.0N
129.0W
126.0W
2500
2500
2500
1000
200

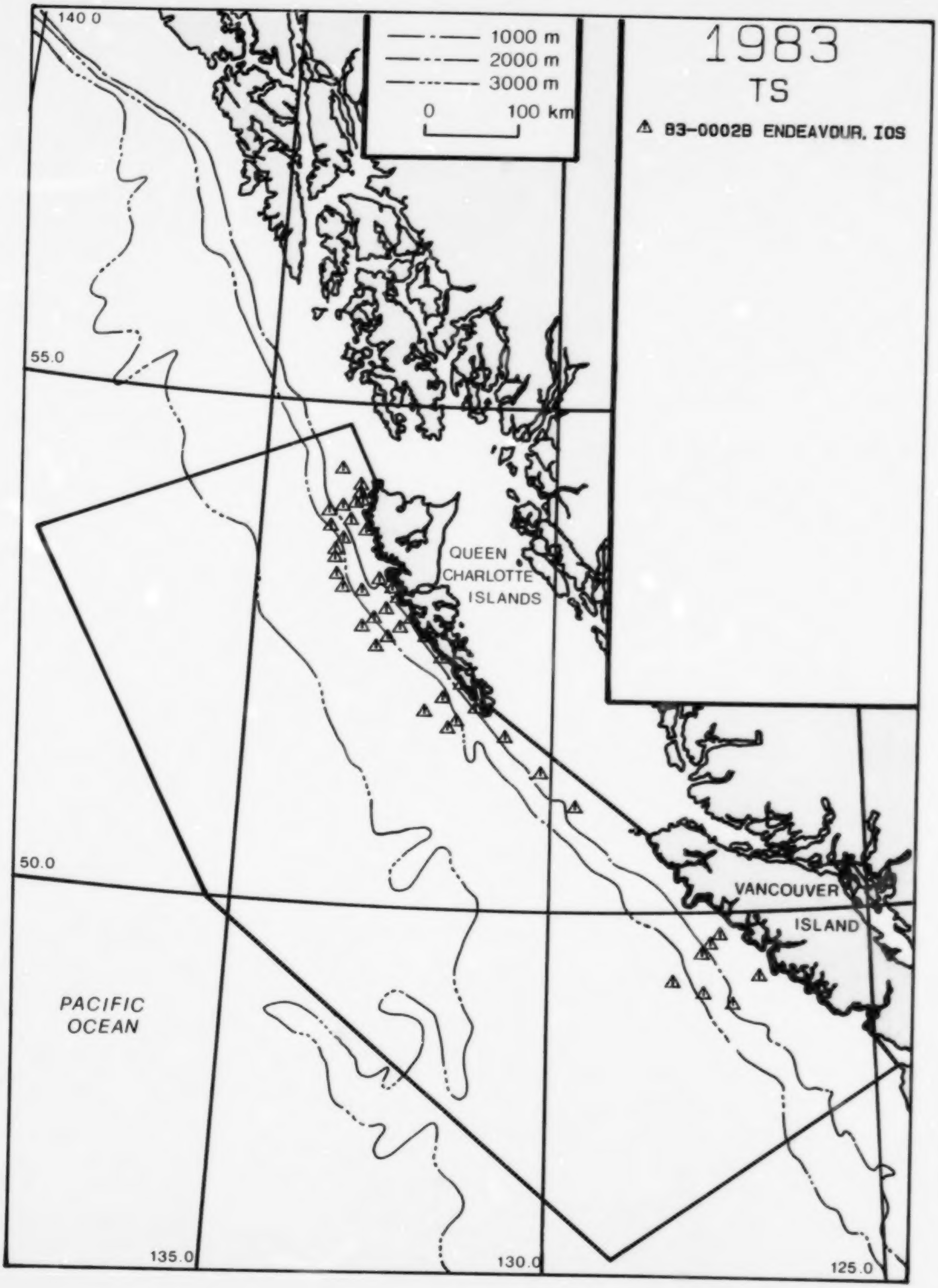

1982
WL
Y 70-0032 CHS
✱ 70-0065 CHS
+ 76-0102 CHS
× 81-0096 CHS
49°20'
PORT ALBERNI
ALBERNI INLET
EFFINGHAM INLET
PIPESTEM INLET
UCHUCKLESIT INLET
49°
BARKLEY SOUND
CAPE BEALE
125°20'
125°
0
5
10km
DEPTH
50 m
100 m

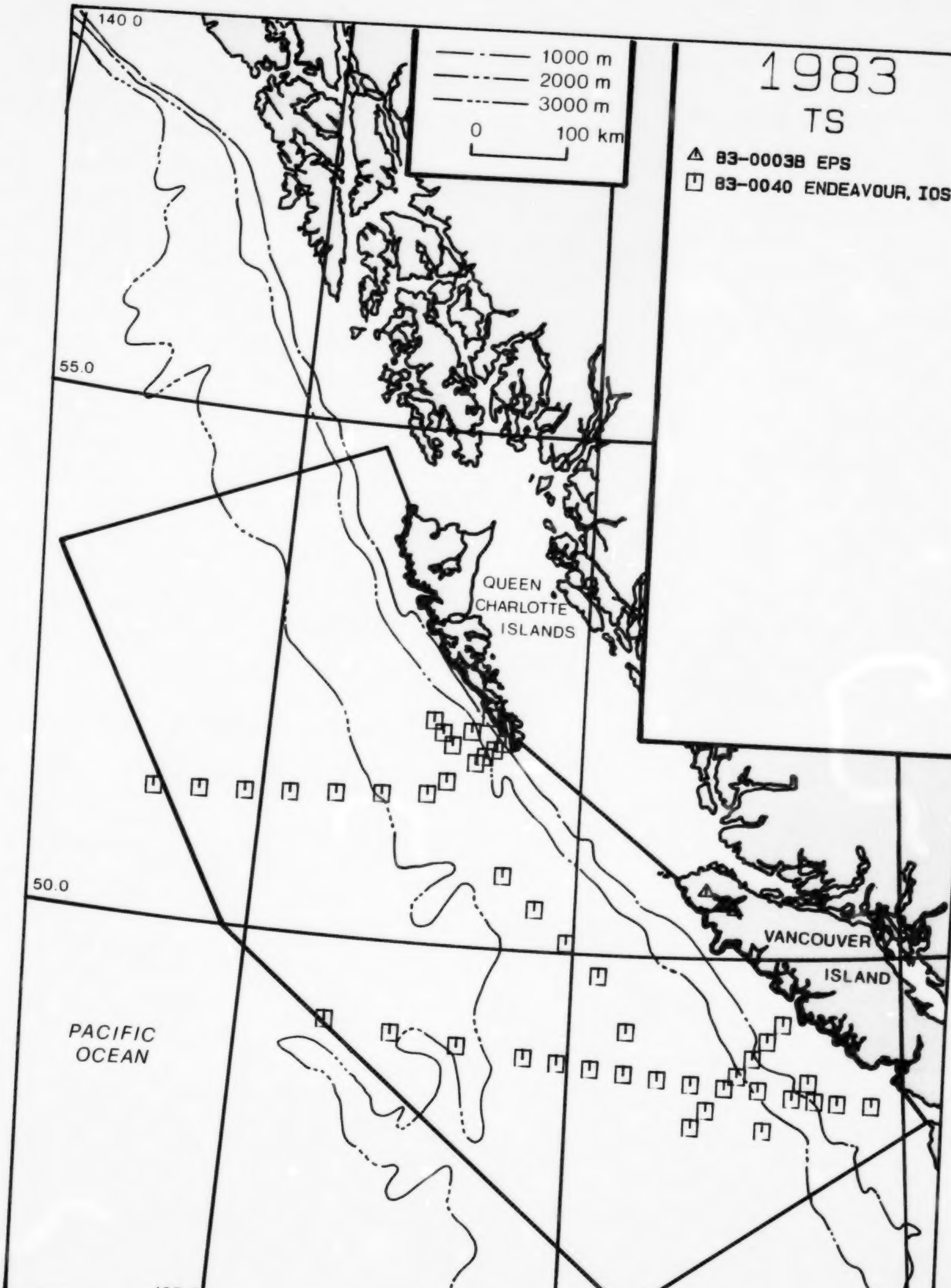

DEPTH ——— - - - - ——— 100m
0
5
10km
50°30'
127°30'
128°
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
NEROUTSOS INLET
QUATSINO SOUND
1982
WL
✱ 81-0056A ENDEAVOUR, IOS
+ 82-0091 CHS

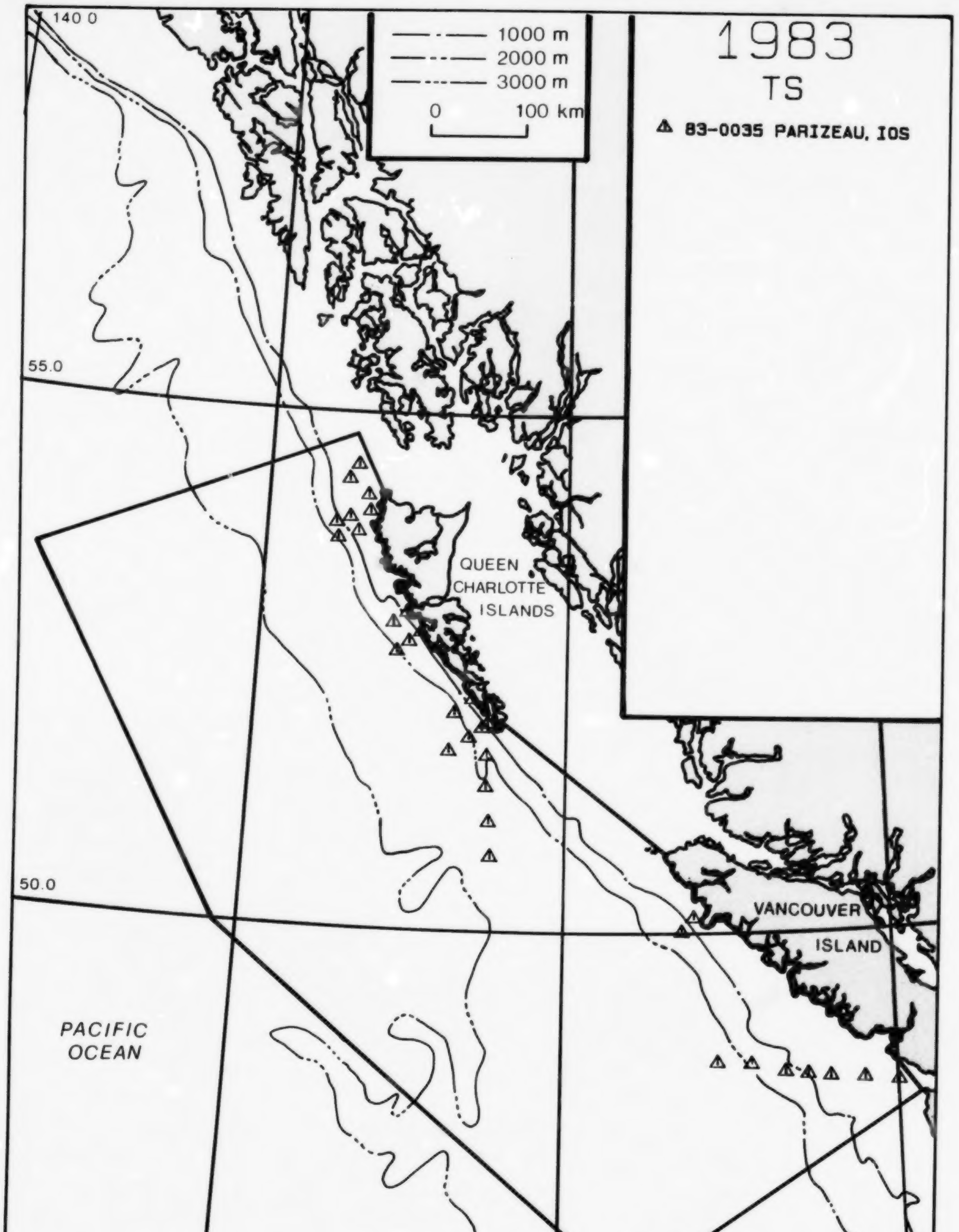

140.0
1000 m
2000 m
3000 m
0 100 km
1983
TS
△ 34-0002 MOT
□ 34-0007 MOT
▽ 35-0008 MOT
◇ 40-0004 MOT
○ 71-0104 MOT
55.0
QUEEN CHARLOTTE ISLANDS
50.0
VANCOUVER ISLAND
PACIFIC OCEAN
135.0
130.0
125.0

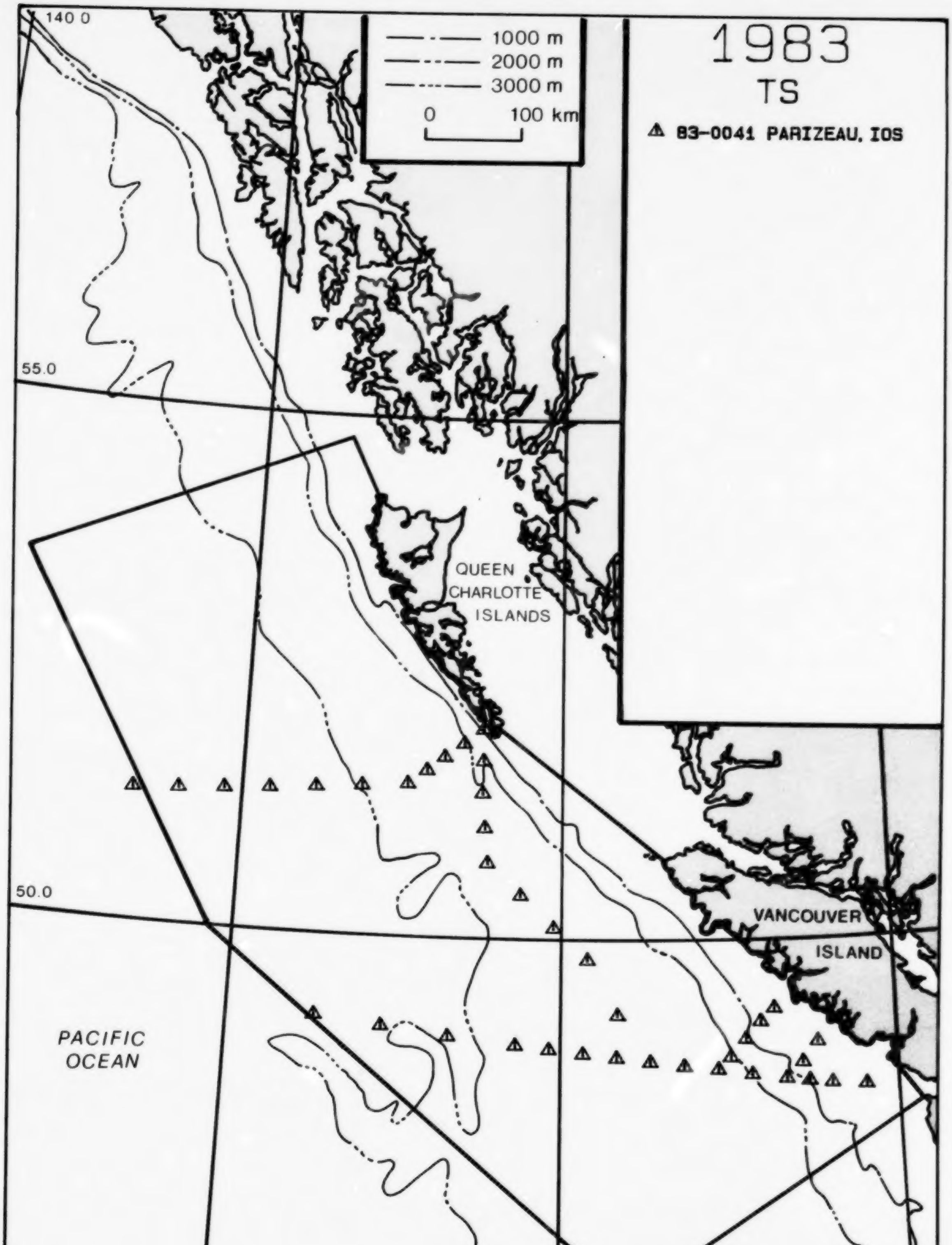

140.0
55.0
50.0
135.0
130.0
125.0
1000 m
2000 m
3000 m
0
100 km
1983
TS
⚠ 71-0097 UTAH MINES
☐ 83-0036 IOS
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

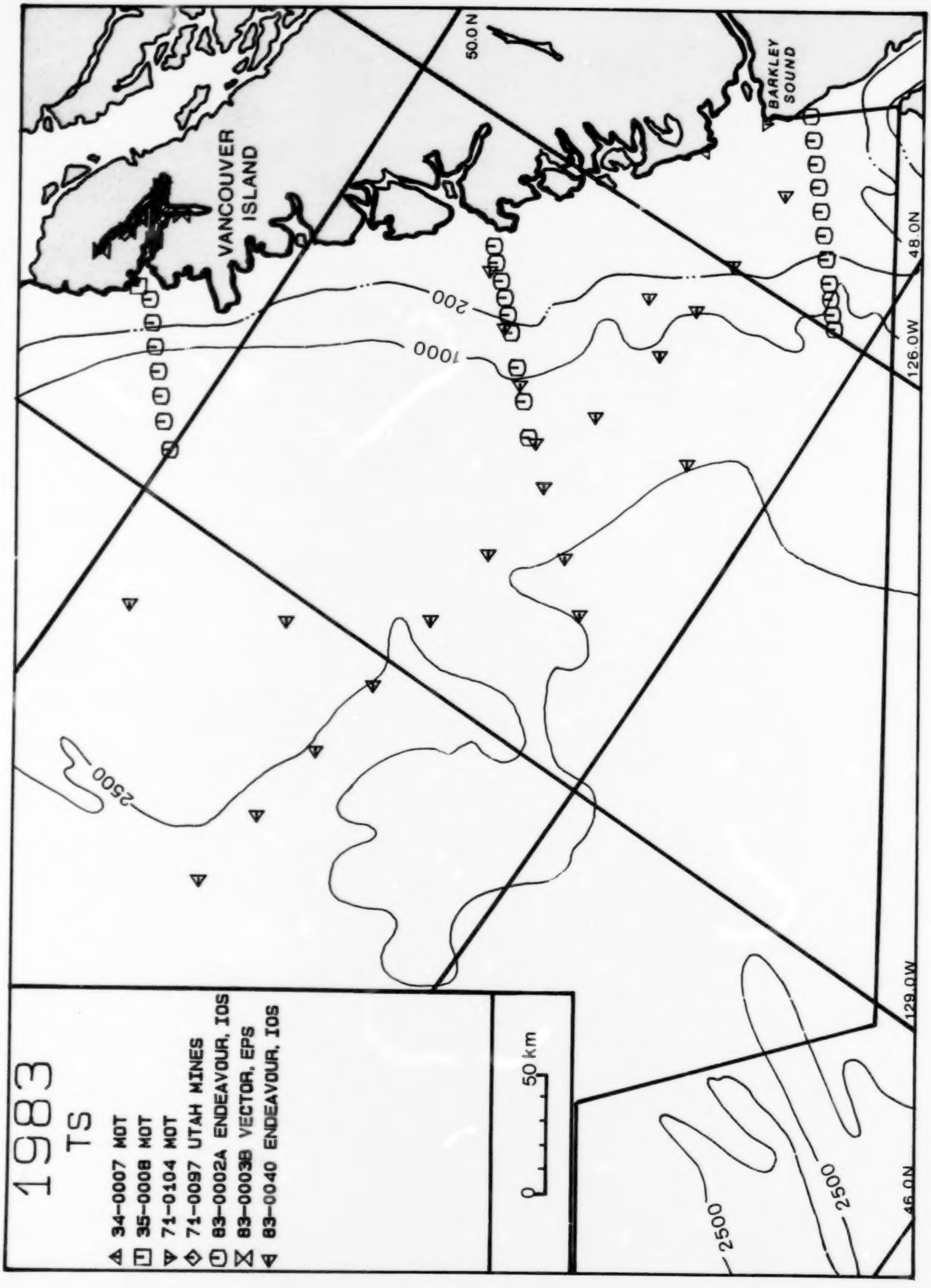

1983
TS
⚠ 83-0002A ENDEAVOUR, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

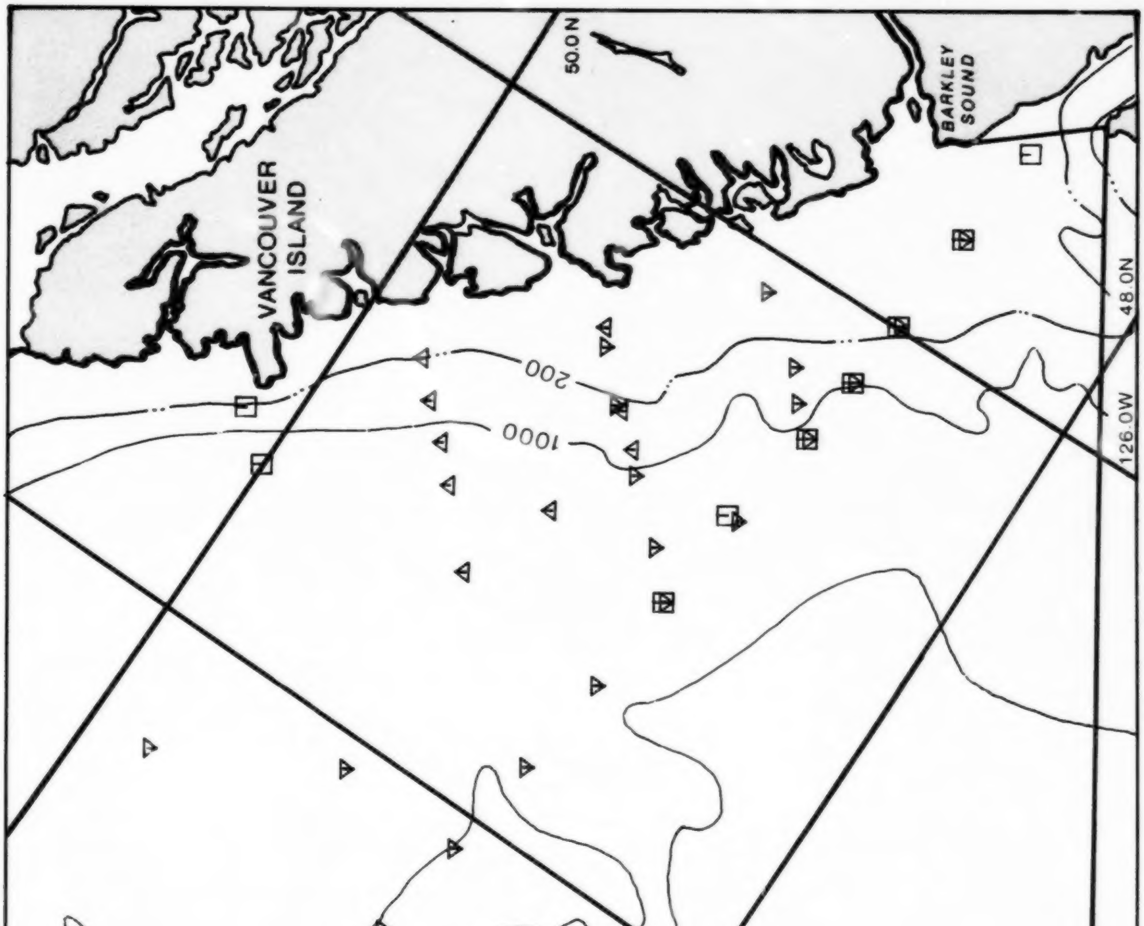

1000 m
2000 m
3000 m
0
100 km
1983
TS
⚠ 83-0002B ENDEAVOUR, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

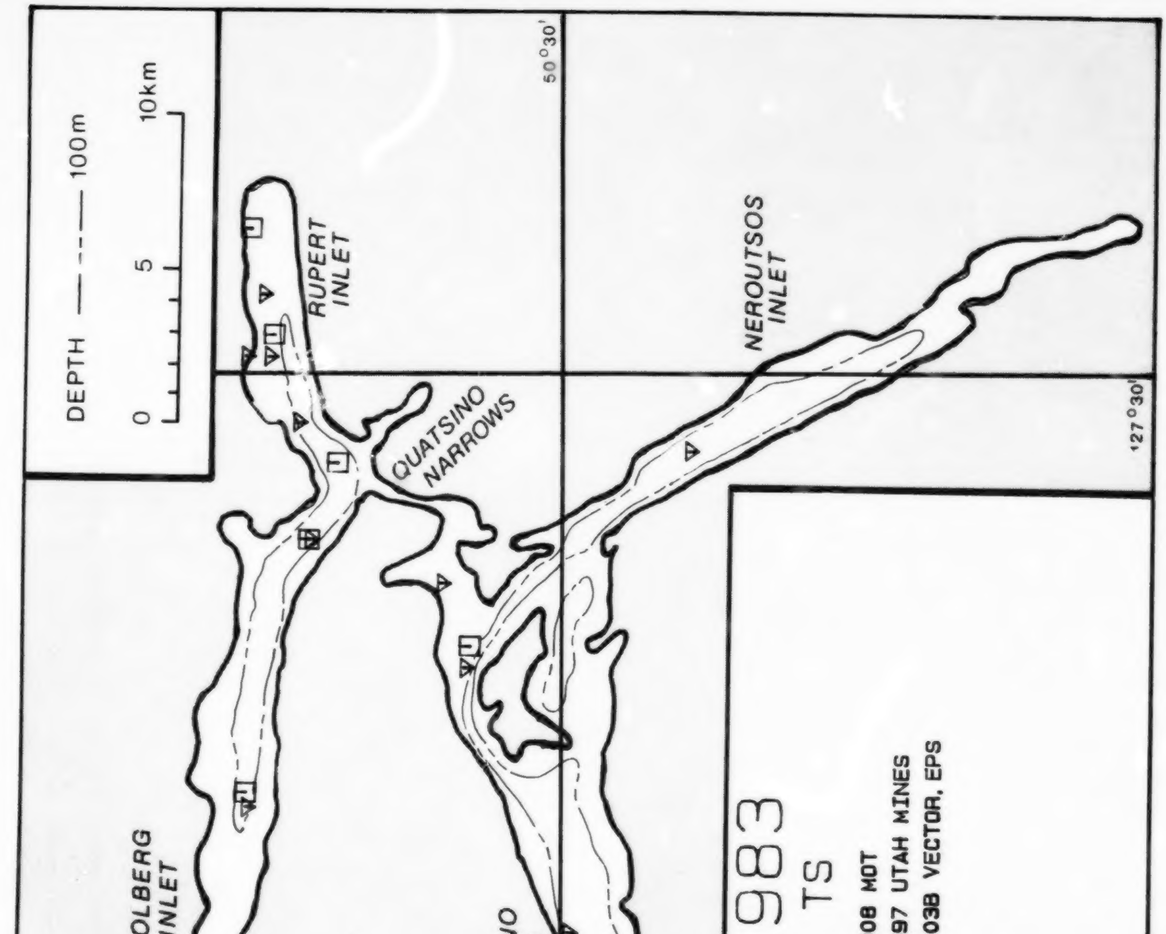

1983
TS
△ 83-0003B EPS
◻ 83-0040 ENDEAVOUR, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

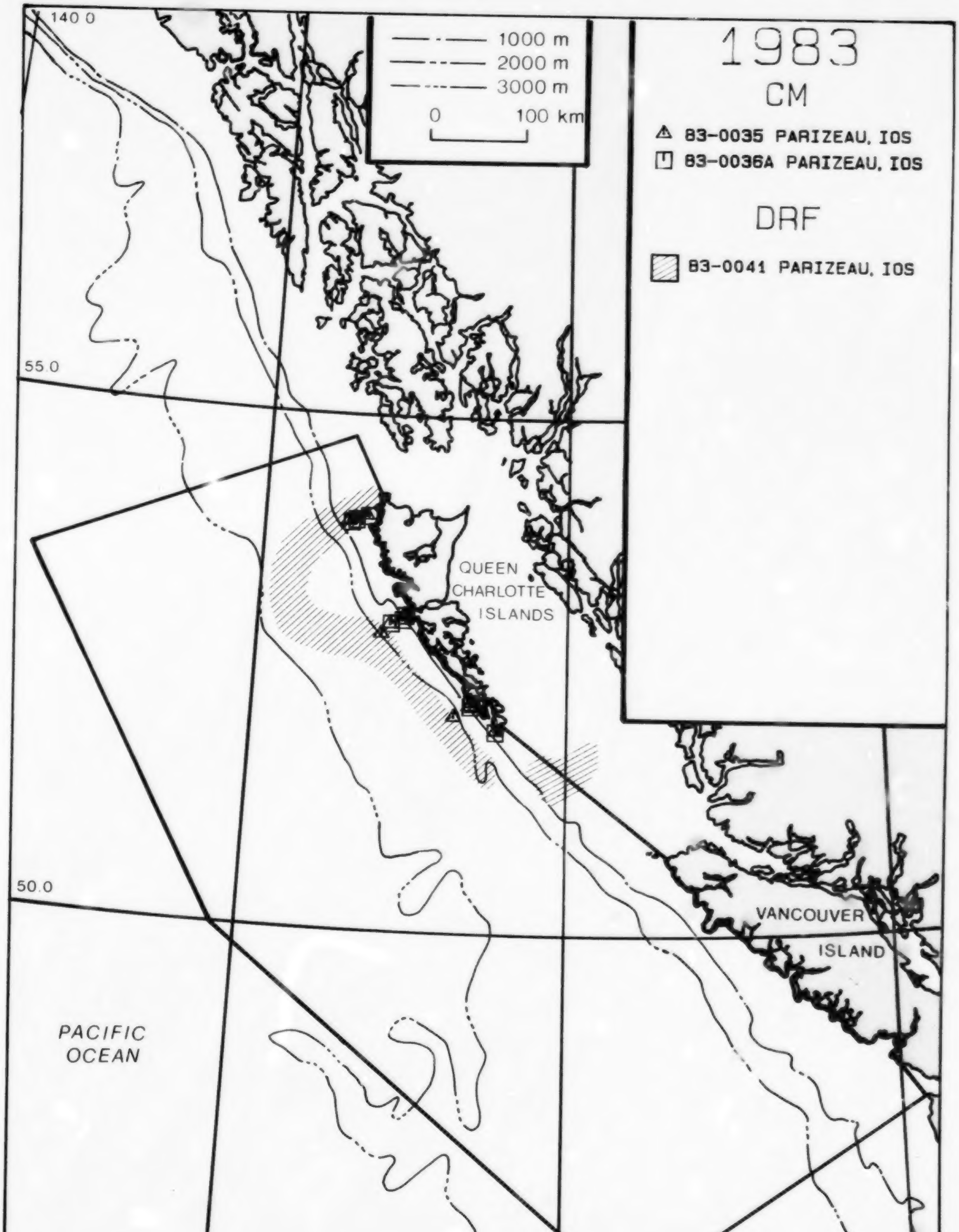

1000 m
2000 m
3000 m
0
100 km
1983
TS
83-0035 PARIZEAU, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

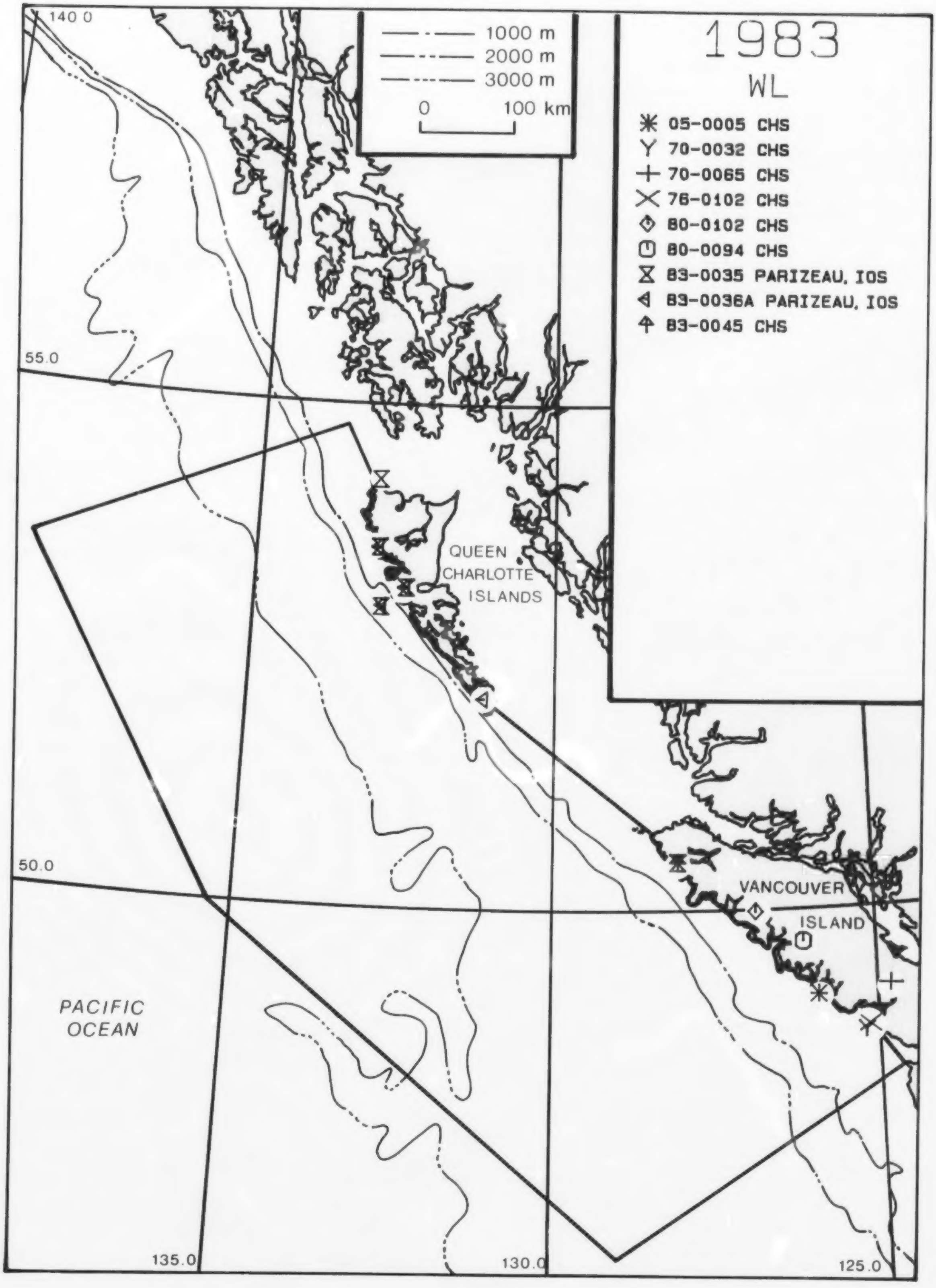

1983
TS
⚠ 83-0041 PARIZEAU, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

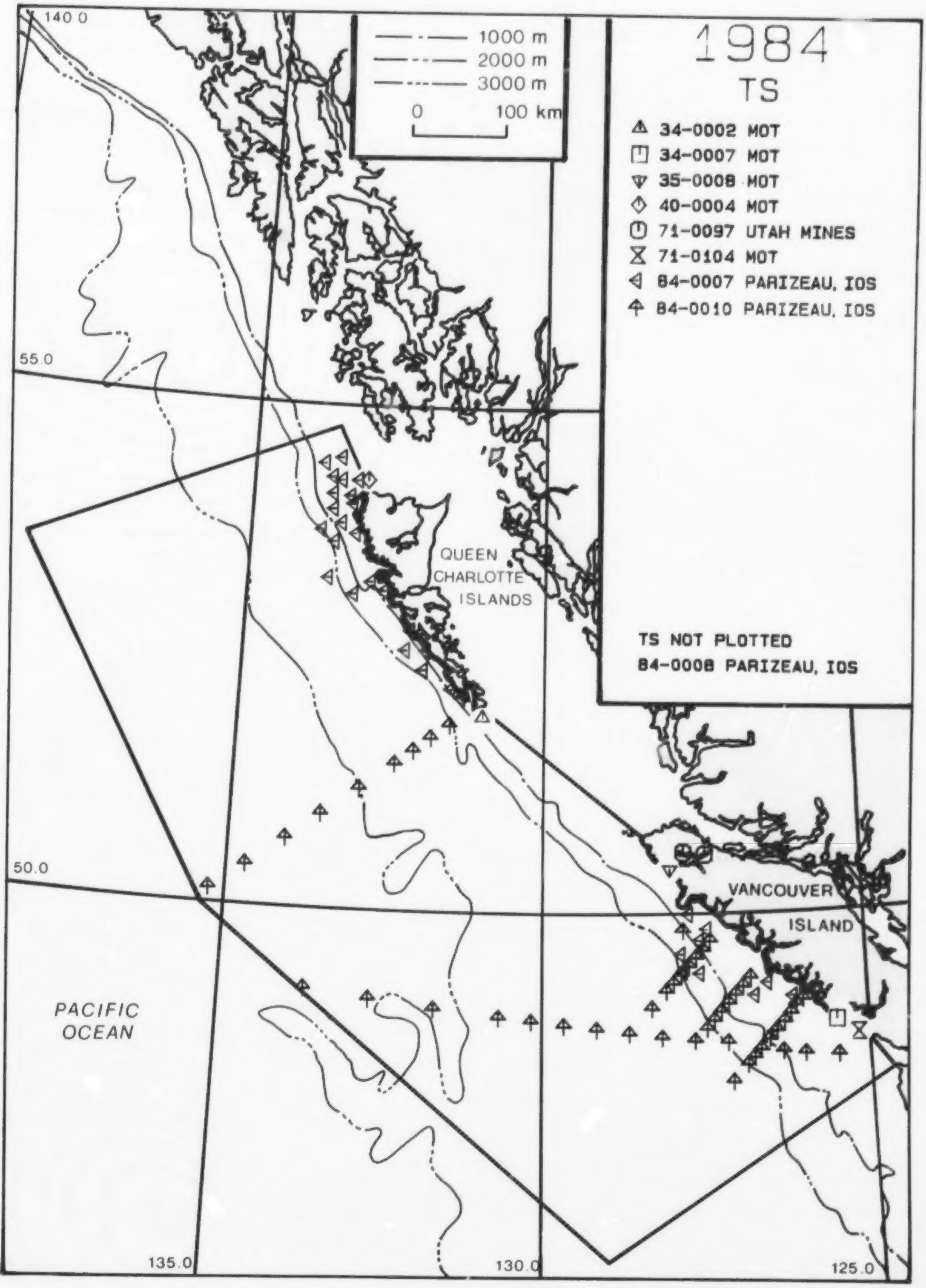

1983
TS
△ 34-0007 MOT
⊡ 35-0008 MOT
▽ 71-0104 MOT
◇ 71-0097 UTAH MINES
⊙ 83-0002A ENDEAVOUR, IOS
⊠ 83-0003B VECTOR, EPS
▼ 83-0040 ENDEAVOUR, IOS
0
50 km
VANCOUVER
ISLAND
BARKLEY
SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

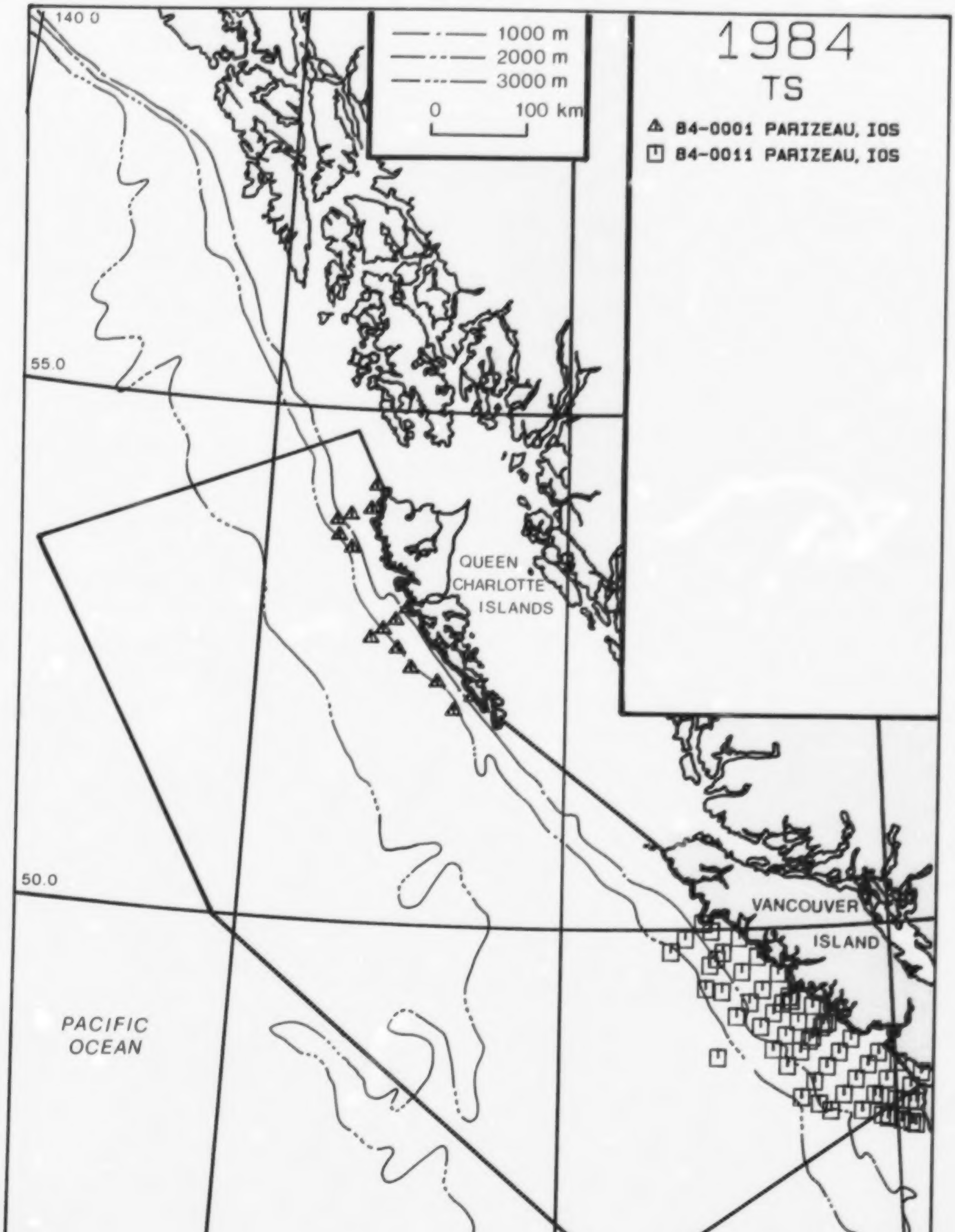

1983
TS
83-0002B ENDEAVOUR, IOS
83-0035 PARIZEAU, IOS
83-0041 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

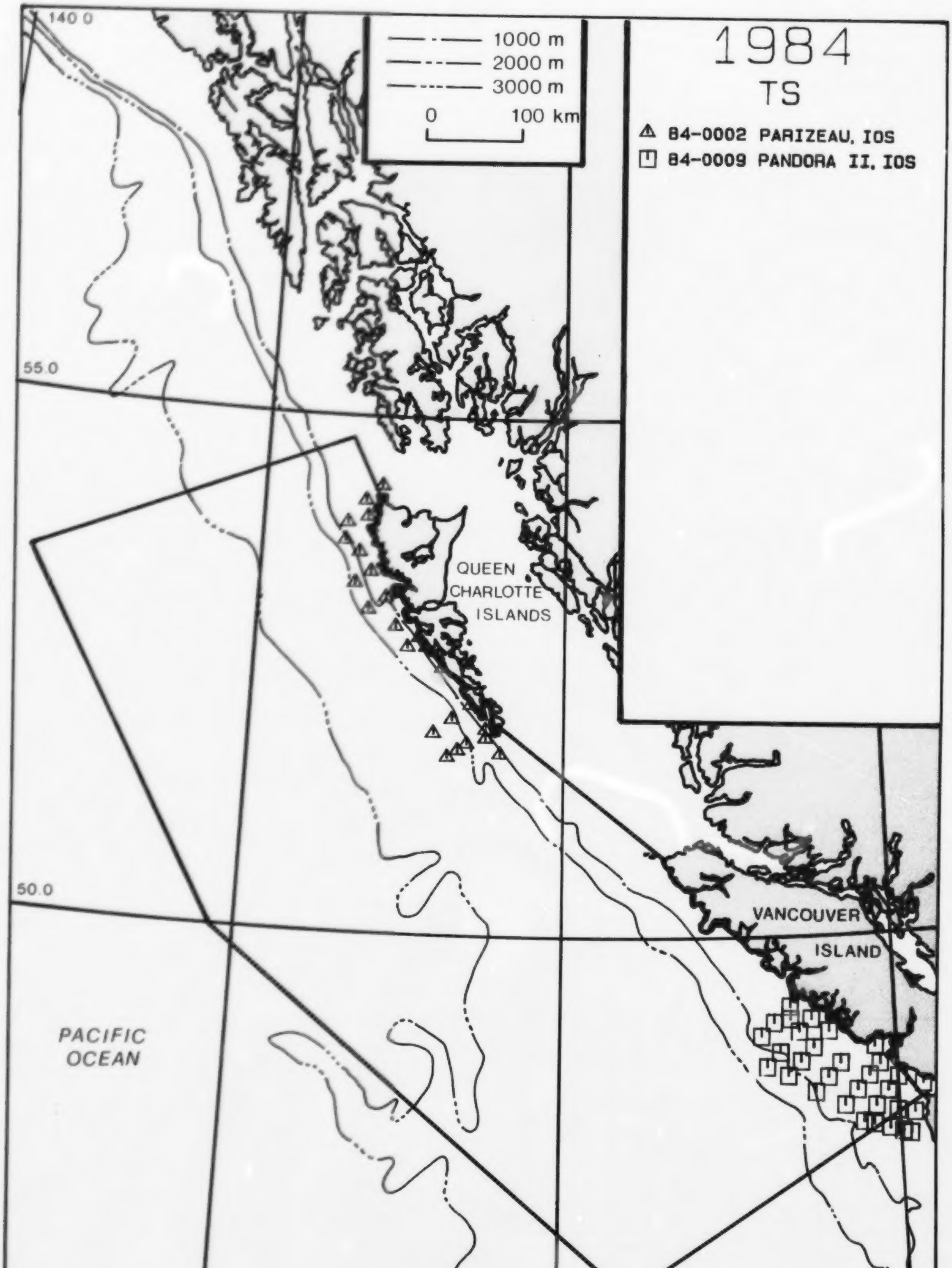

DEPTH —— 100m
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
50°30'
127°30'
128°
1983
Ts
△ 35-0008 MOT
⊡ 71-0097 UTAH MINES
▽ 83-0003B VECTOR, EPS

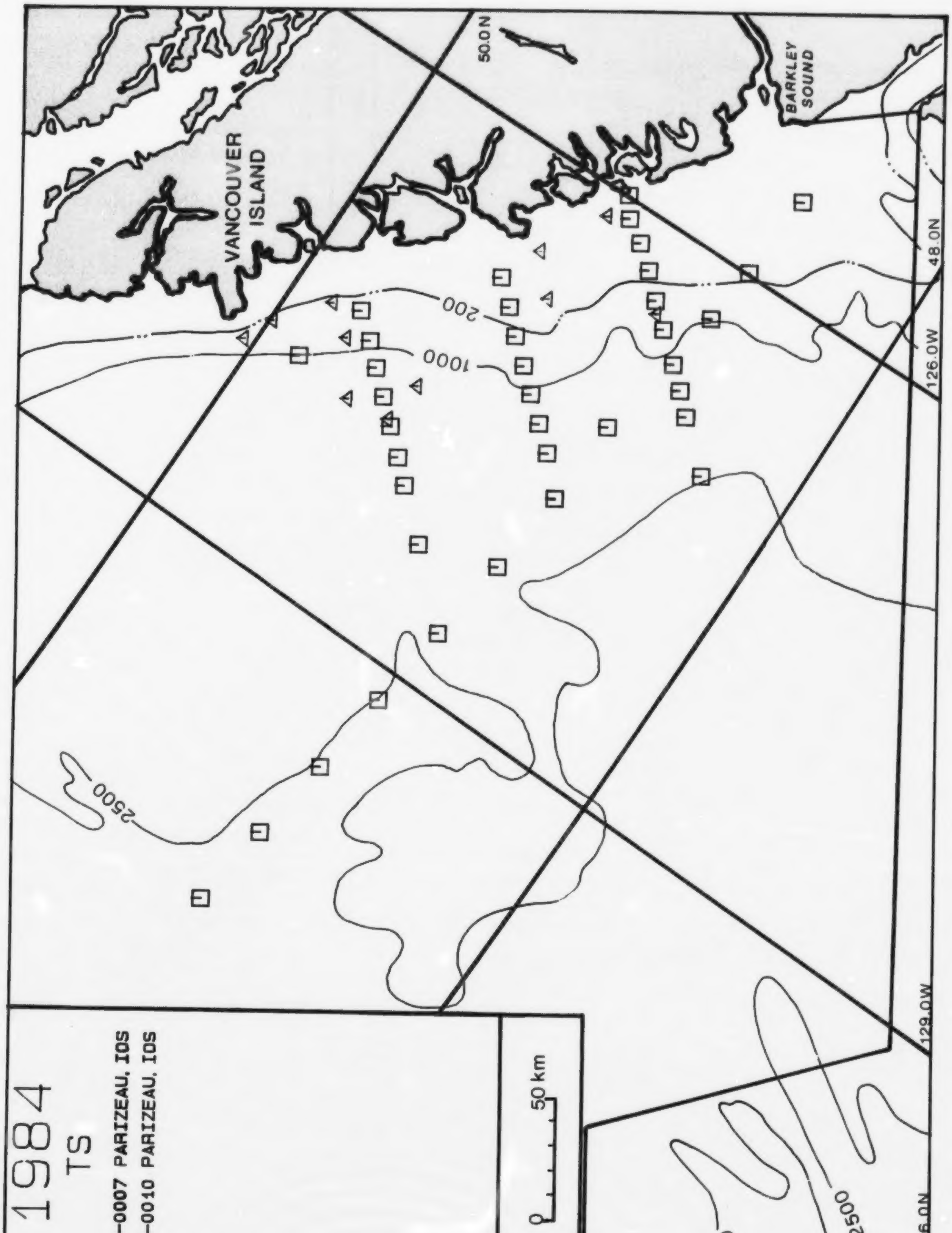

140.0
1000 m
2000 m
3000 m
0
100 km
1983
CM
△ 83-0035 PARIZEAU, IOS
◫ 83-0036A PARIZEAU, IOS
DRF
▨ 83-0041 PARIZEAU, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

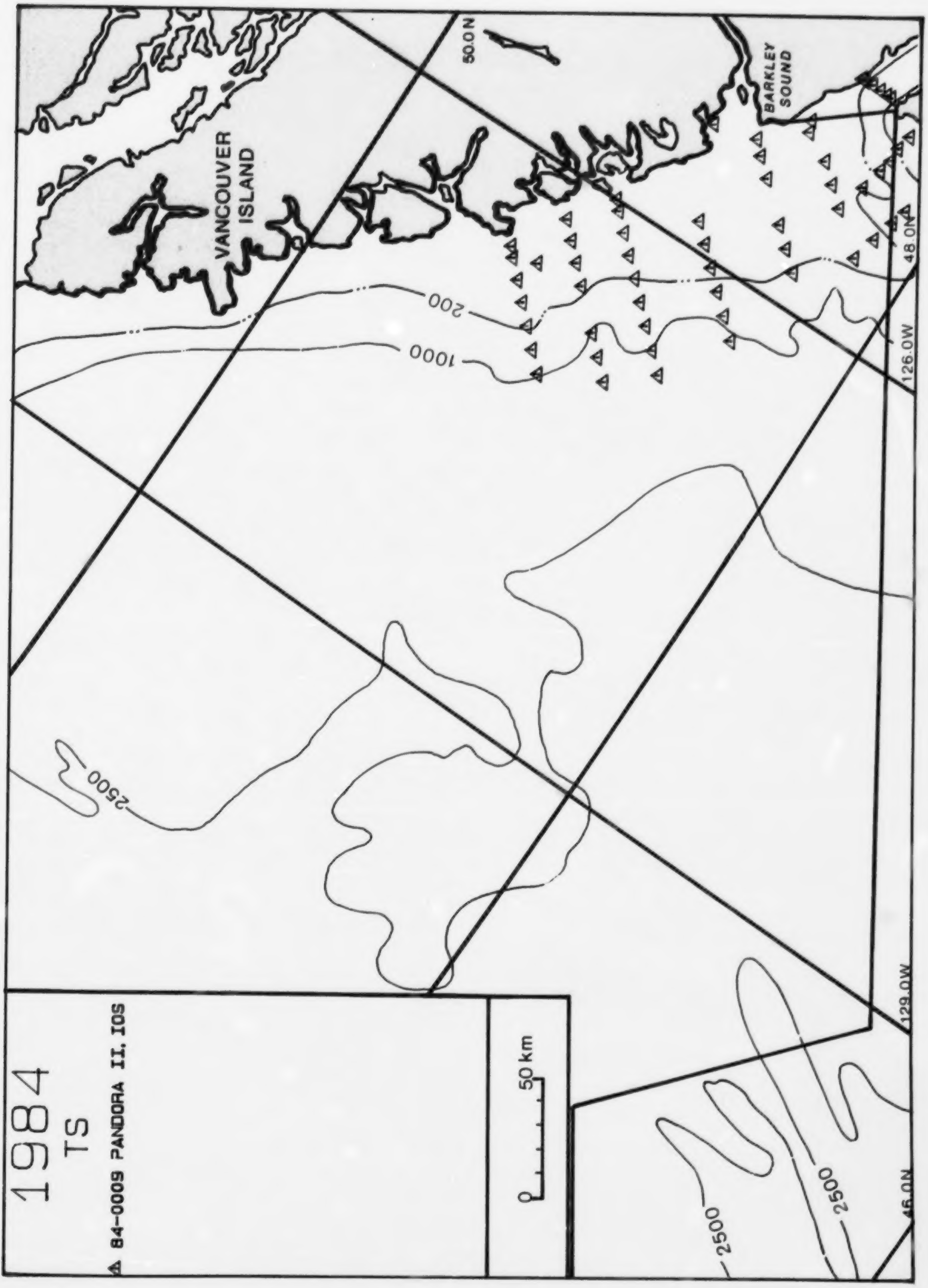

1983
WL
05-0005 CHS
70-0032 CHS
70-0065 CHS
76-0102 CHS
80-0102 CHS
80-0094 CHS
83-0035 PARIZEAU, IOS
83-0036A PARIZEAU, IOS
83-0045 CHS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

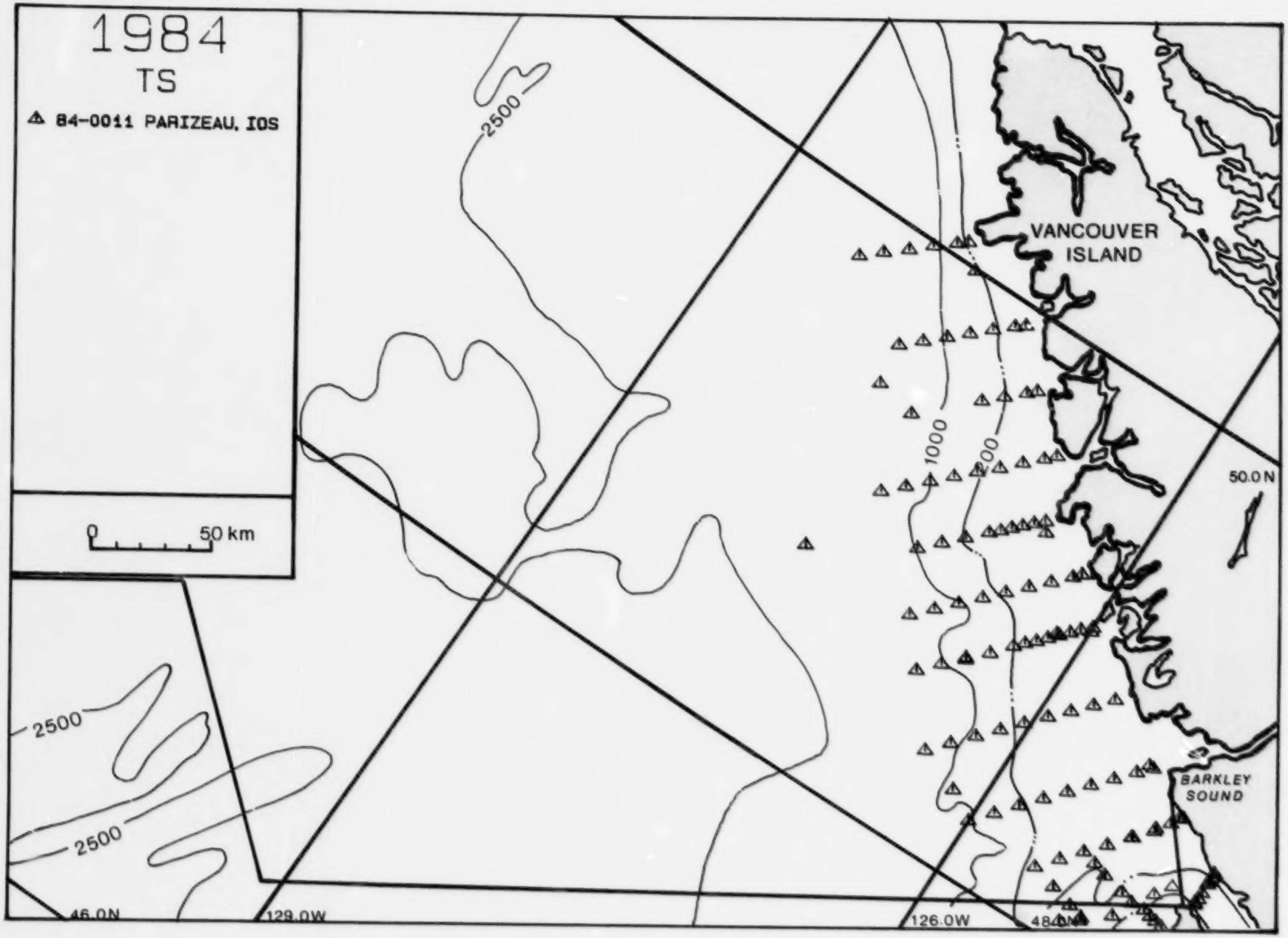

140 0
1000 m
2000 m
3000 m
0
100 km
1984
TS
34-0002 MOT
34-0007 MOT
35-0008 MOT
40-0004 MOT
71-0097 UTAH MINES
71-0104 MOT
84-0007 PARIZEAU, IOS
84-0010 PARIZEAU, IOS
55.0
QUEEN
CHARLOTTE
ISLANDS
TS NOT PLOTTED
84-0008 PARIZEAU, IOS
50.0
VANCOUVER
ISLAND
PACIFIC
OCEAN
135.0
130.0
125.0

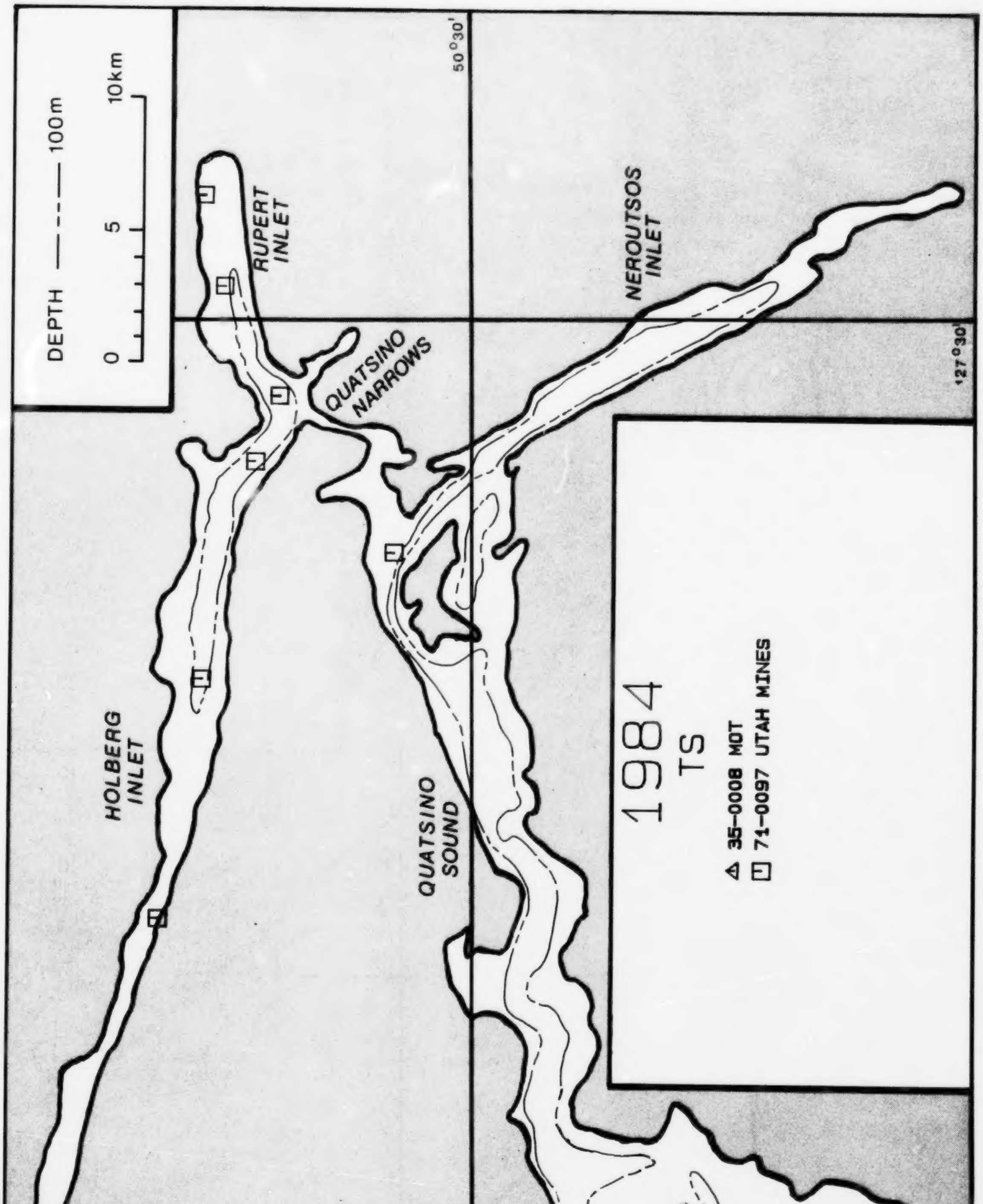

1000 m
2000 m
3000 m
0
100 km
1984
TS
△ 84-0001 PARIZEAU, IOS
☐ 84-0011 PARIZEAU, IOS
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN

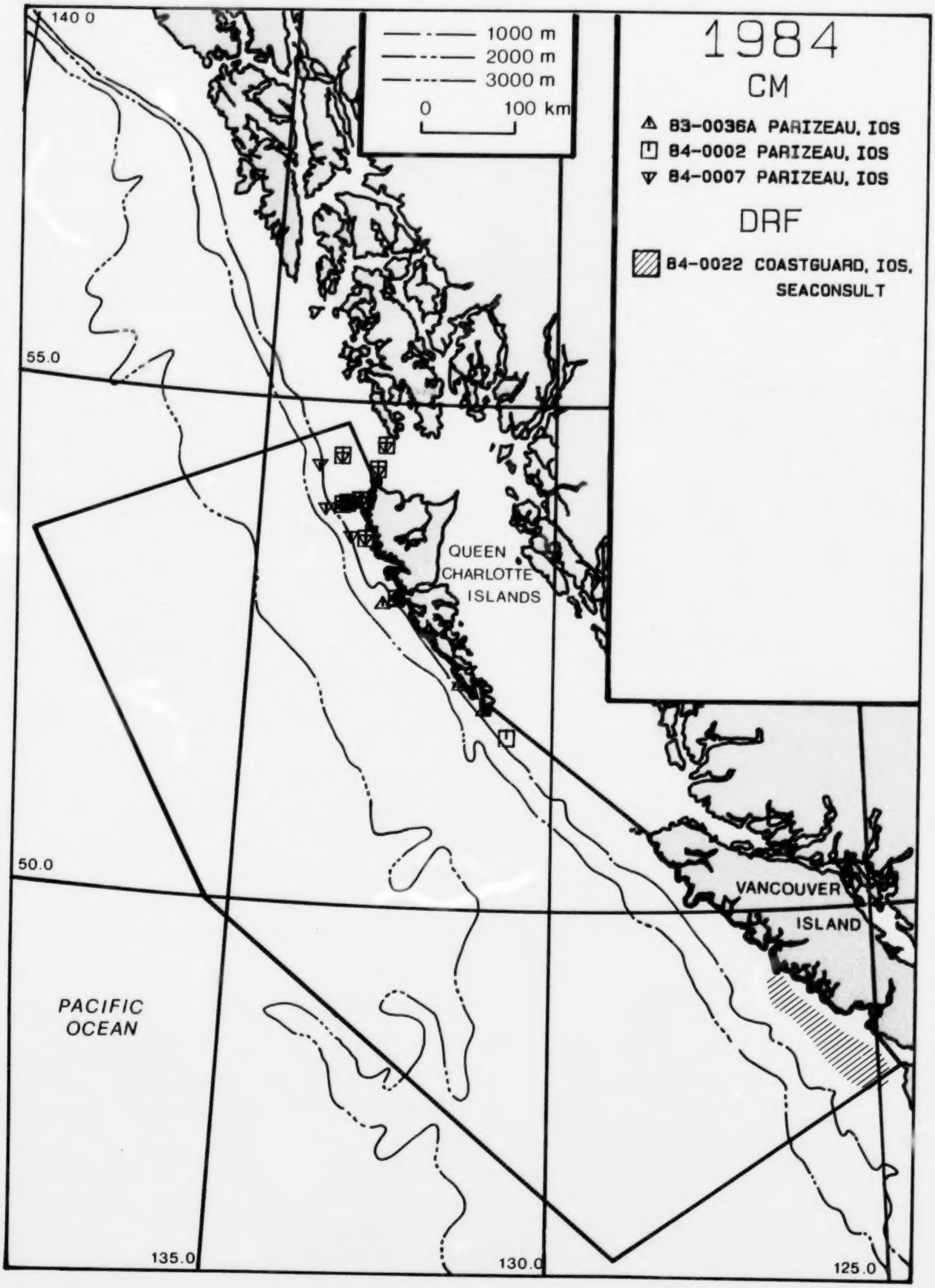

1984
TS
⚠ 84-0002 PARIZEAU, IOS
◻ 84-0009 PANDORA II, IOS
1000 m
2000 m
3000 m
0
100 km
140.0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN

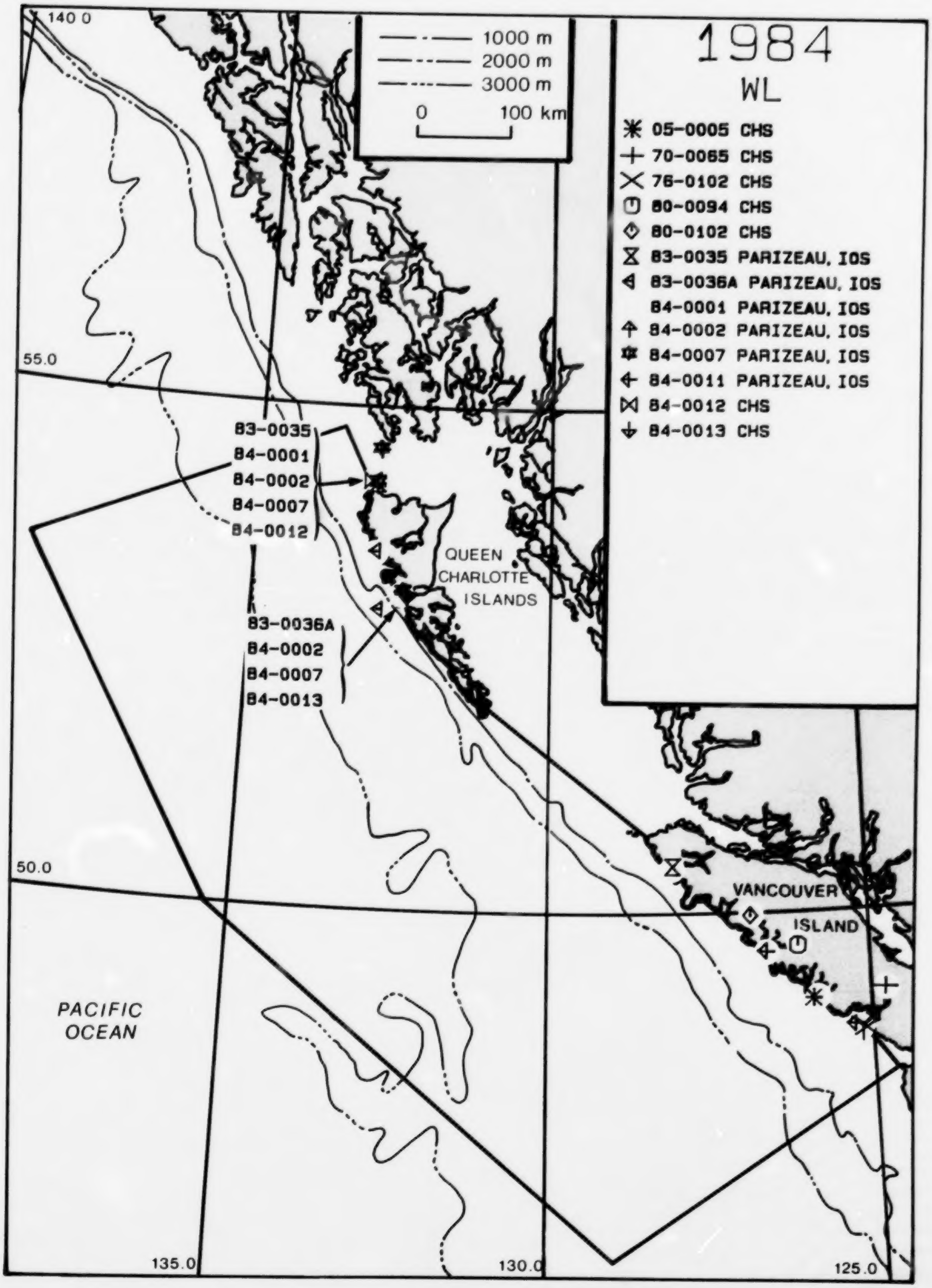

1984
TS
△ 84-0007 PARIZEAU, IOS
☐ 84-0010 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500

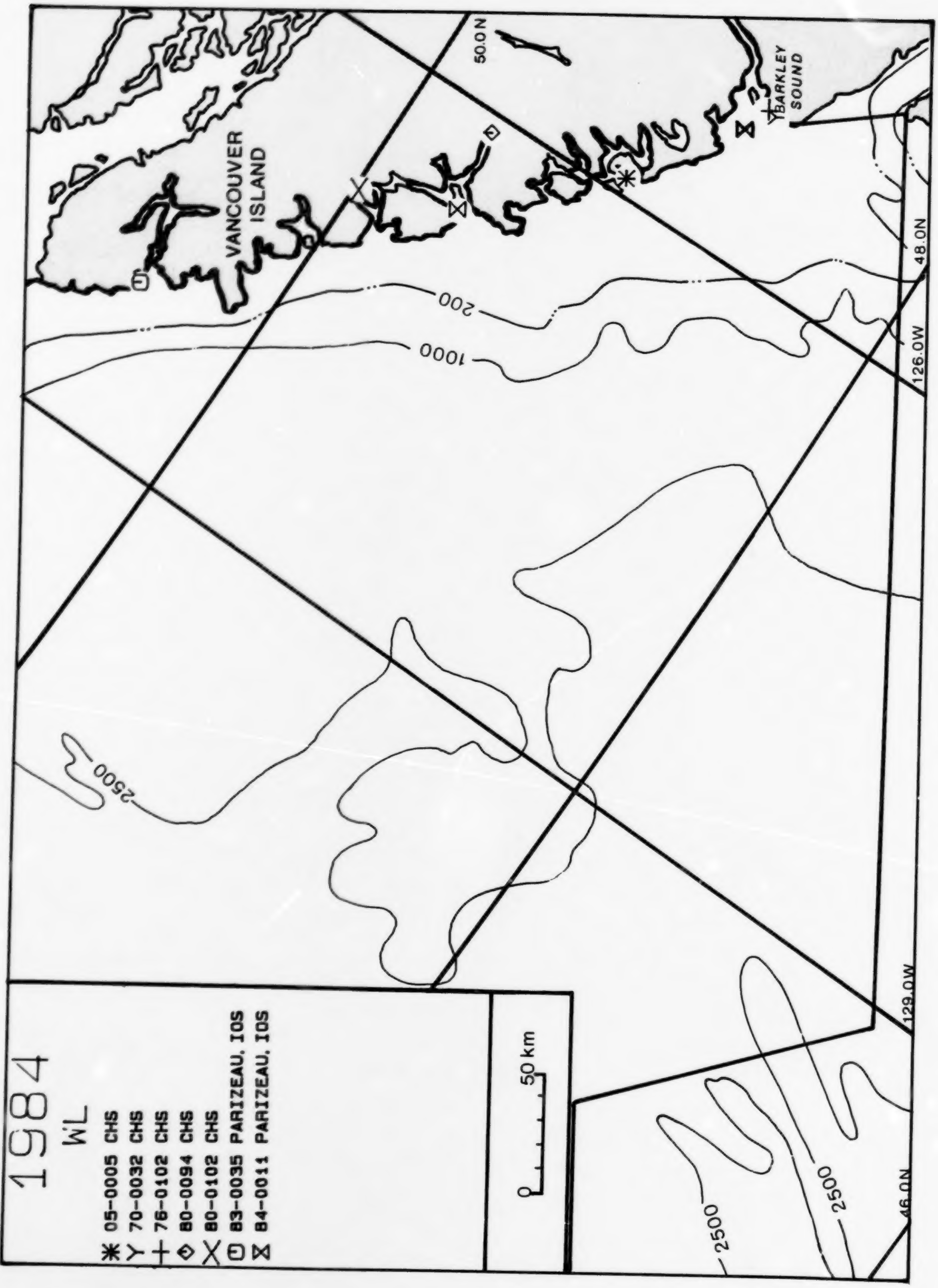

1984
TS
84-0009 PANDORA II, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500


1984
TS
84-0011 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
46.0N
48.0N
129.0W
126.0W
2500
2500
2500
1000
200


DEPTH
———— 100m
- - - -
0
5
10km
HOLBERG INLET
RUPERT INLET
QUATSINO NARROWS
QUATSINO SOUND
NEROUTSOS INLET
1984
TS
△ 35-0008 MOT
⊡ 71-0097 UTAH MINES
50°30'
127°30'
128°


1984
CM
▲ 83-0036A PARIZEAU, IOS
☐ 84-0002 PARIZEAU, IOS
▽ 84-0007 PARIZEAU, IOS
DRF
▨ 84-0022 COASTGUARD, IOS, SEACONSULT
1000 m
2000 m
3000 m
0
100 km
140 0
55.0
50.0
135.0
130.0
125.0
QUEEN CHARLOTTE ISLANDS
VANCOUVER ISLAND
PACIFIC OCEAN


1984
WL
1000 m
2000 m
3000 m
0
100 km
✳ 05-0005 CHS
+ 70-0065 CHS
✕ 76-0102 CHS
80-0094 CHS
◇ 80-0102 CHS
⧗ 83-0035 PARIZEAU, IOS
◁ 83-0036A PARIZEAU, IOS
84-0001 PARIZEAU, IOS
↑ 84-0002 PARIZEAU, IOS
✡ 84-0007 PARIZEAU, IOS
← 84-0011 PARIZEAU, IOS
⋈ 84-0012 CHS
↓ 84-0013 CHS
140.0
55.0
50.0
135.0
130.0
125.0
83-0035
84-0001
84-0002
84-0007
84-0012
83-0036A
84-0002
84-0007
84-0013
QUEEN
CHARLOTTE
ISLANDS
VANCOUVER
ISLAND
PACIFIC
OCEAN


1984
WL
✳ 05-0005 CHS
Y 70-0032 CHS
+ 76-0102 CHS
◇ 80-0094 CHS
X 80-0102 CHS
⊡ 83-0035 PARIZEAU, IOS
⧖ 84-0011 PARIZEAU, IOS
0
50 km
VANCOUVER ISLAND
BARKLEY SOUND
50.0N
48.0N
46.0N
126.0W
129.0W
200
1000
2500
2500
2500
2500

OTHER VOLUMES IN THIS SERIES

Birch, J.R., E.C. Luscombe, D.B. Fissel and L.F. Giovando. 1985. West Coast Data Inventory and Appraisal. Volume 1. Dixon Entrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography-Temperature, Salinity, Currents, Water Levels and Waves, 1903 through 1984. Cdn. Data Report Hydrogr. Ocean Sciences, No. 37, Vol. 1, (Part 1, 302 p.; Part 2, 265 p.)